

## Which One Doesn't Belong - Kinematics

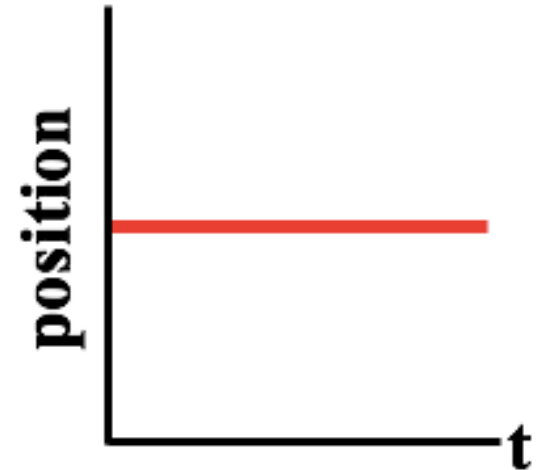
### Question Group 1

#### Question 1

One of these representations is not like the others. Which one doesn't belong?

Time	Position
0.0 s	0.0 m
1.0 s	4.0 m
2.0 s	8.0 m
3.0 s	12.0 m
4.0 s	16.0 m

**"The object is  
moving with a  
constant  
speed."**

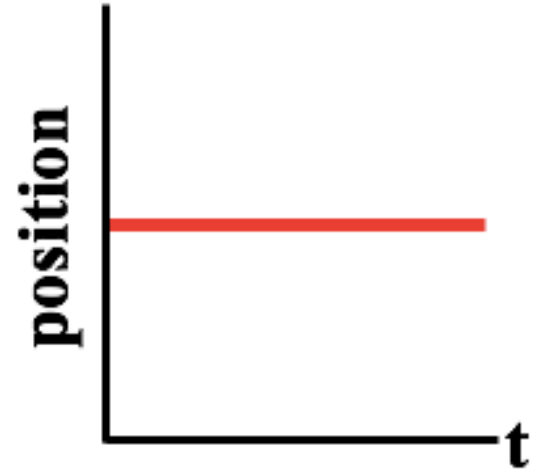


## Question 2

One of these representations is not like the others. Which one doesn't belong?

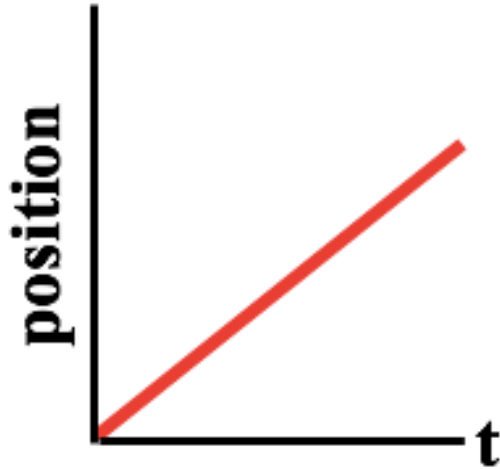
Time	Position
0.0 s	4.0 m
1.0 s	4.0 m
2.0 s	4.0 m
3.0 s	4.0 m
4.0 s	4.0 m

**"The object is  
moving with a  
constant  
speed."**



### Question 3

One of these representations is not like the others. Which one doesn't belong?

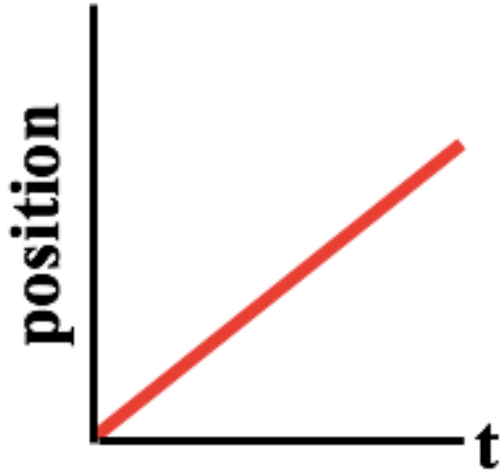


**"The object is  
not moving – it  
is a rest."**

Time	Position
0.0 s	4.0 m
1.0 s	4.0 m
2.0 s	4.0 m
3.0 s	4.0 m
4.0 s	4.0 m

#### Question 4

One of these representations is not like the others. Which one doesn't belong?



**"The object is  
not moving – it  
is a rest."**

Time	Position
0.0 s	0.0 m
1.0 s	4.0 m
2.0 s	8.0 m
3.0 s	12.0 m
4.0 s	16.0 m

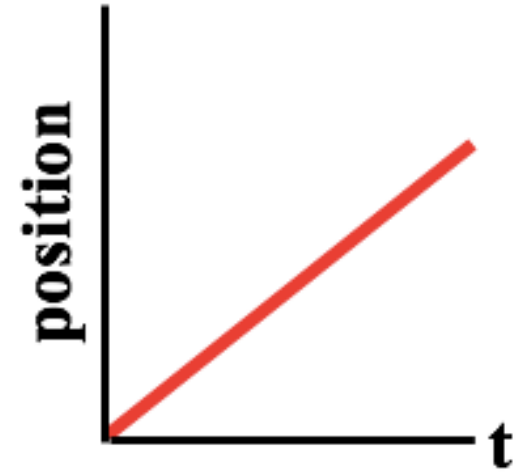
## Question Group 2

### Question 5

One of these representations is not like the others. Which one doesn't belong?

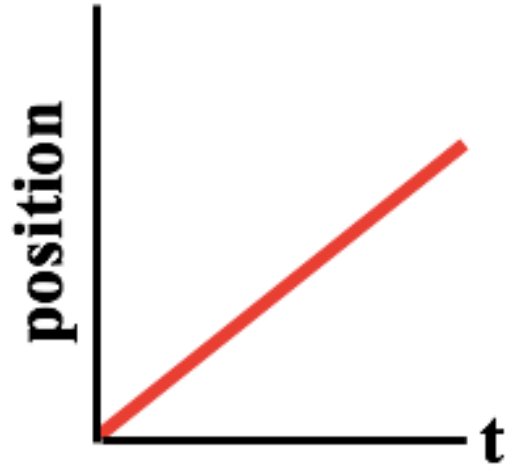


**"The object is speeding up."**



### Question 6

One of these representations is not like the others. Which one doesn't belong?

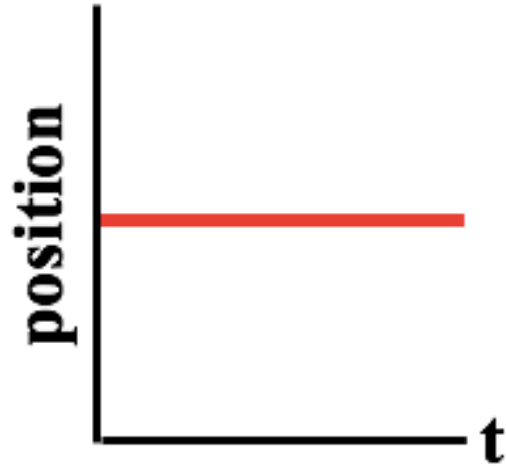


**"The object is speeding up."**



### Question 7

One of these representations is not like the others. Which one doesn't belong?



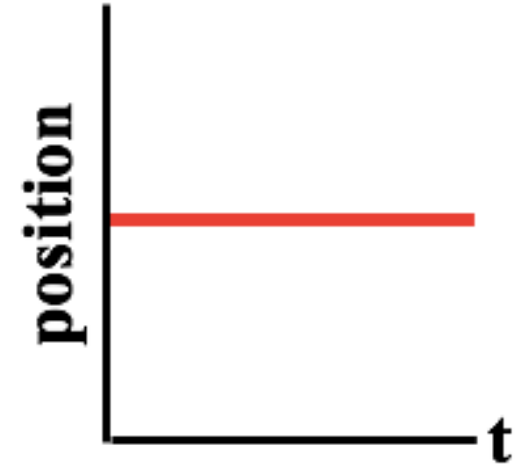
**"The object is  
moving with  
a constant  
speed."**



### Question 8

One of these representations is not like the others. Which one doesn't belong?

**"The object is moving with a constant speed."**





### Question Group 3

#### Question 9

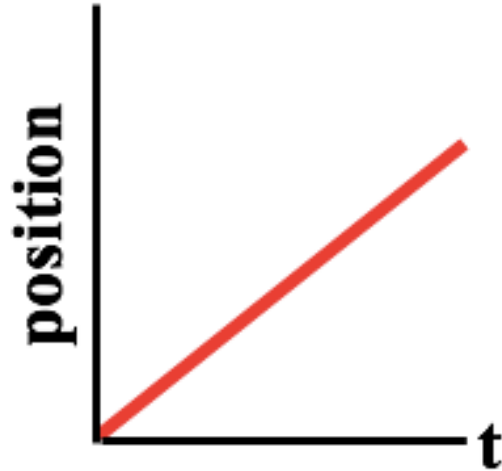
One of these representations is not like the others. Which one doesn't belong?

**"The object is speeding up (i.e. increasing speed)."**



### Question 10

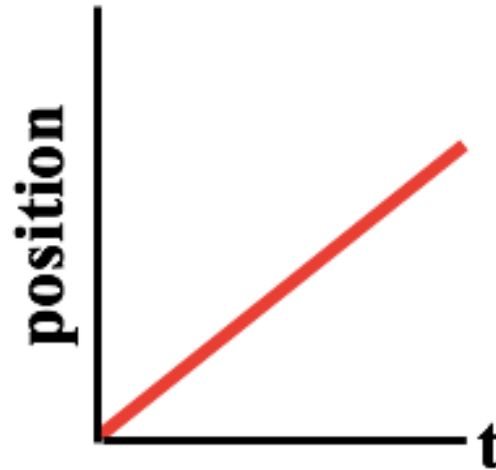
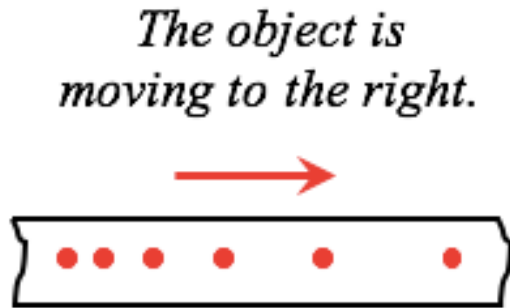
One of these representations is not like the others. Which one doesn't belong?



**"The object is speeding up (i.e. increasing speed)."**

### Question 11

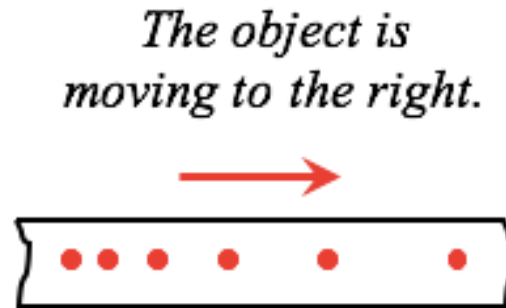
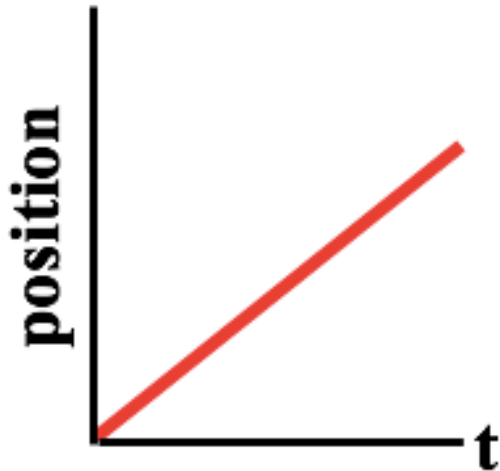
One of these representations is not like the others. Which one doesn't belong?



**"The object is  
speeding up  
(i.e. increasing  
speed)."**

## Question 12

One of these representations is not like the others. Which one doesn't belong?



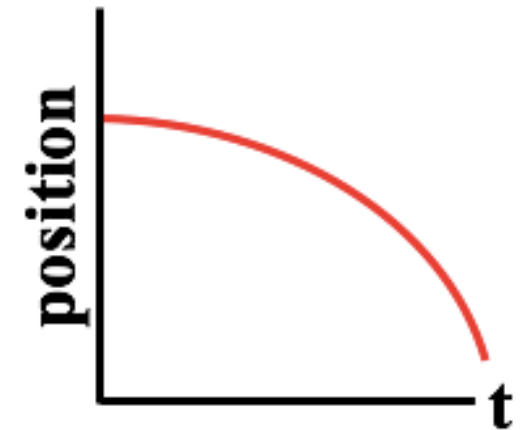
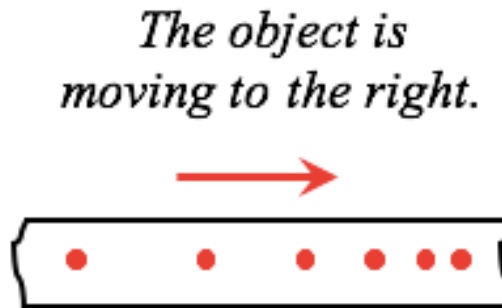
**"The object is  
speeding up  
(i.e. increasing  
speed)."**

## Question Group 4

### Question 13

One of these representations is not like the others. Which one doesn't belong?

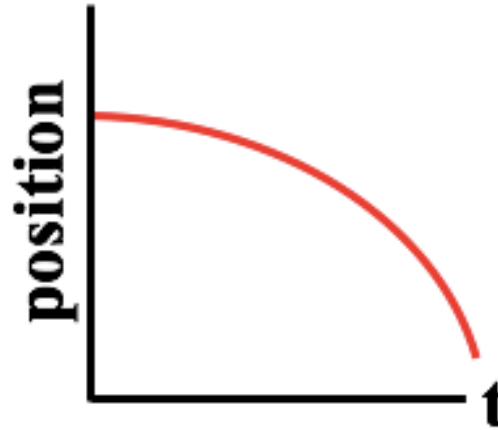
**"The object is slowing down (i.e. decreasing speed)."**



### Question 14

One of these representations is not like the others. Which one doesn't belong?

*The object is  
moving to the right.*

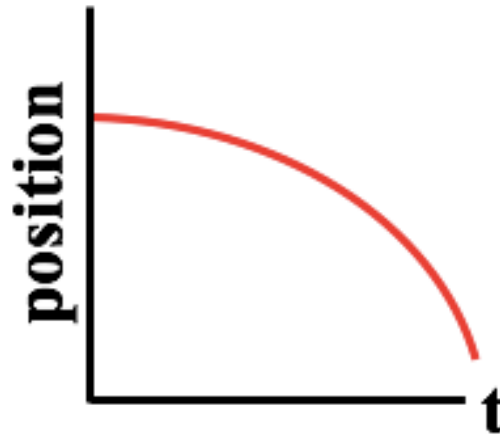


**"The object is  
slowing down  
(i.e. decreasing  
speed)."**

### Question 15

One of these representations is not like the others. Which one doesn't belong?

Time	Position
0.0 s	0.0 m
1.0 s	8.0 m
2.0 s	12.0 m
3.0 s	14.0 m
4.0 s	15.0 m

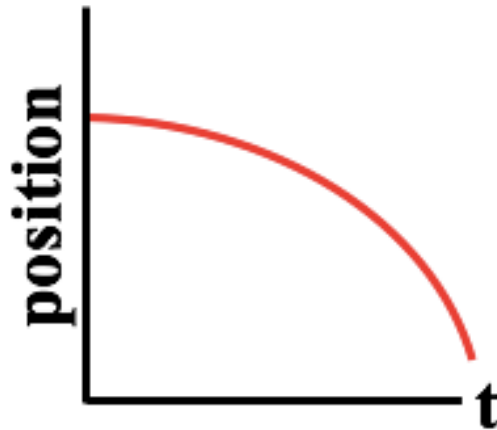


**"The object is speeding up (i.e. increasing speed)."**

### Question 16

One of these representations is not like the others. Which one doesn't belong?

**"The object is speeding up (i.e. increasing speed)."**



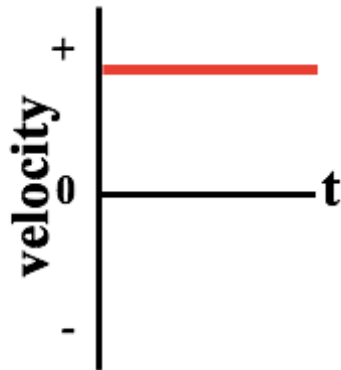
Time	Position
0.0 s	0.0 m
1.0 s	8.0 m
2.0 s	12.0 m
3.0 s	14.0 m
4.0 s	15.0 m



## Question Group 5

### Question 17

One of these representations is not like the others. Which one doesn't belong?

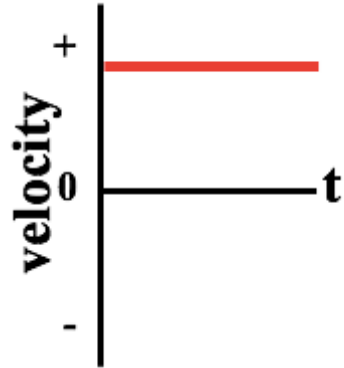


Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s

**"The object is  
moving with a  
constant  
speed."**

### Question 18

One of these representations is not like the others. Which one doesn't belong?



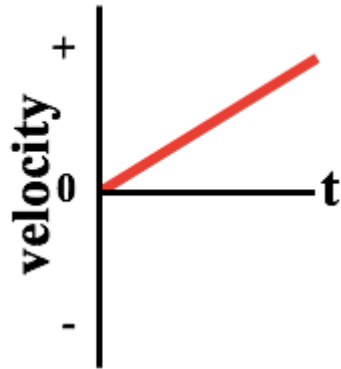
Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s

**"The object is moving with a constant speed."**



### Question 19

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	4.0 m/s
1.0 s	4.0 m/s
2.0 s	4.0 m/s
3.0 s	4.0 m/s
4.0 s	4.0 m/s

**"The object is  
moving with a  
constant  
speed."**

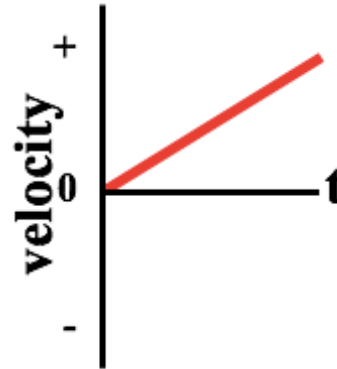


## Question 20

One of these representations is not like the others. Which one doesn't belong?

**"The object is moving with a constant speed."**

Time	Velocity
0.0 s	4.0 m/s
1.0 s	4.0 m/s
2.0 s	4.0 m/s
3.0 s	4.0 m/s
4.0 s	4.0 m/s



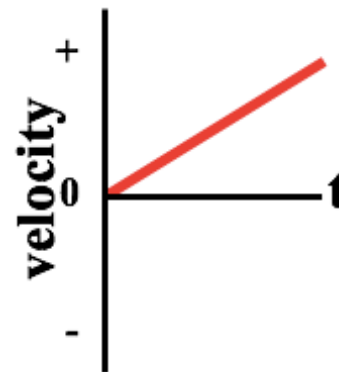
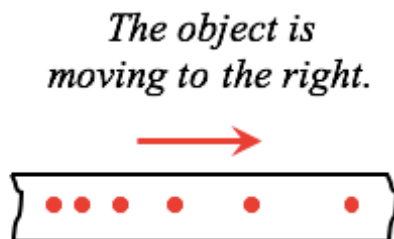
## Question Group 6

### Question 21

One of these representations is not like the others. Which one doesn't belong?

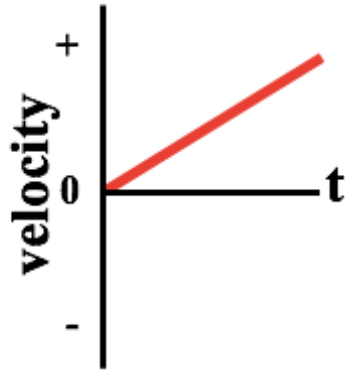
**"The object is  
moving with a  
constant  
speed."**

Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s



## Question 22

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s

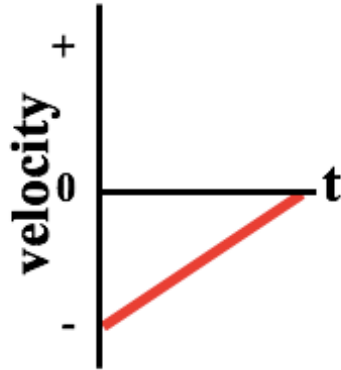
**"The object is  
moving with a  
constant  
speed."**

*The object is  
moving to the right.*



### Question 23

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s

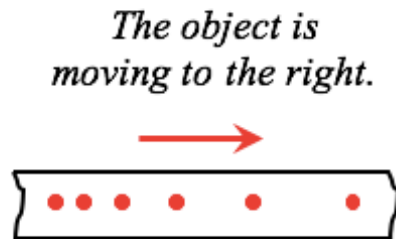
**"The object is speeding up (i.e., increasing speed)."**

*The object is moving to the right.*



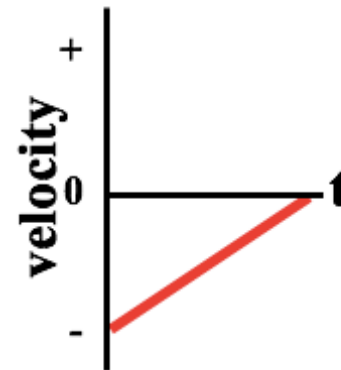
## Question 24

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s

**"The object is  
speeding up  
(i.e., increasing  
speed)."**

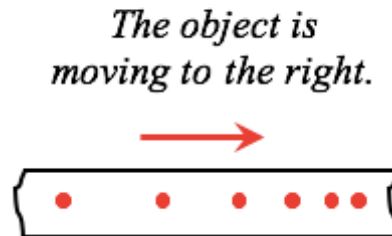




## Question Group 7

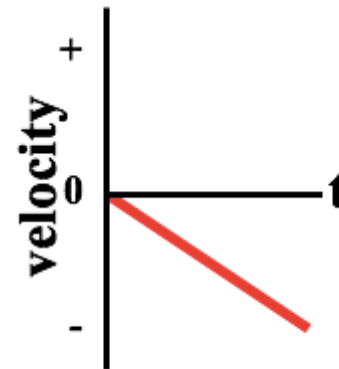
### Question 25

One of these representations is not like the others. Which one doesn't belong?



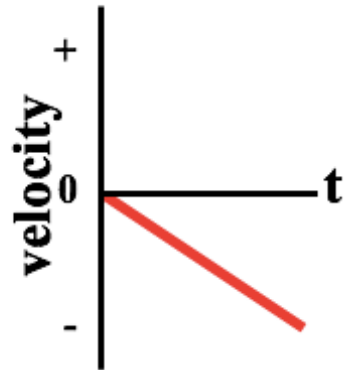
Time	Velocity
0.0 s	16.0 m/s
1.0 s	12.0 m/s
2.0 s	8.0 m/s
3.0 s	4.0 m/s
4.0 s	0.0 m/s

**"The object is  
slowing down  
(i.e., decreasing  
speed)."**



## Question 26

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	16.0 m/s
1.0 s	12.0 m/s
2.0 s	8.0 m/s
3.0 s	4.0 m/s
4.0 s	0.0 m/s

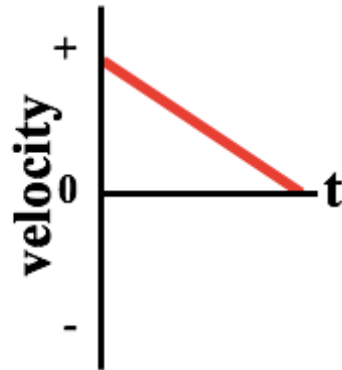
*The object is  
moving to the right.*



**"The object is  
slowing down  
(i.e., decreasing  
speed)."**

## Question 27

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s

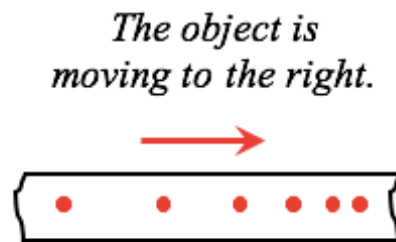
*The object is  
moving to the right.*



**"The object is  
slowing down  
(i.e., decreasing  
speed)."**

## Question 28

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s

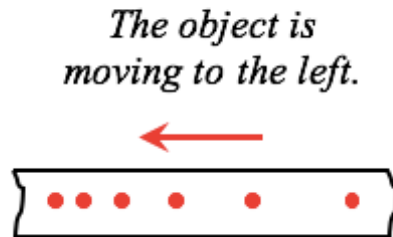
**"The object is slowing down (i.e., decreasing speed)."**



## Question Group 8

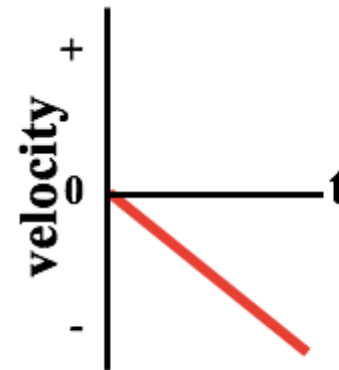
### Question 29

One of these representations is not like the others. Which one doesn't belong?



Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s

**"The object is  
speeding up  
(i.e., increasing  
speed)."**

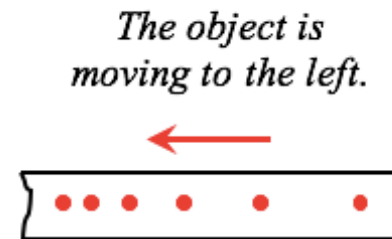
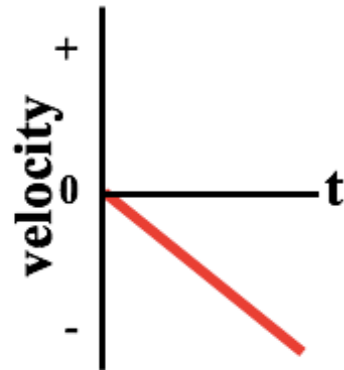


### Question 30

One of these representations is not like the others. Which one doesn't belong?

**"The object is speeding up (i.e., increasing speed)."**

Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s

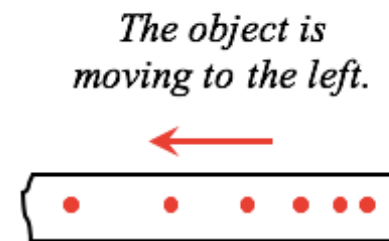
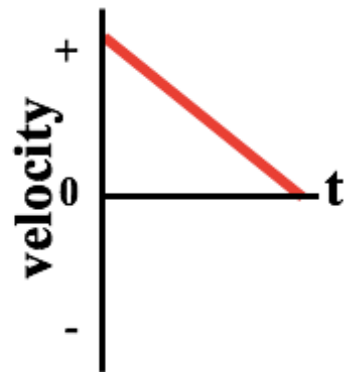


### Question 31

One of these representations is not like the others. Which one doesn't belong?

**"The object is speeding up (i.e., increasing speed)."**

Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s

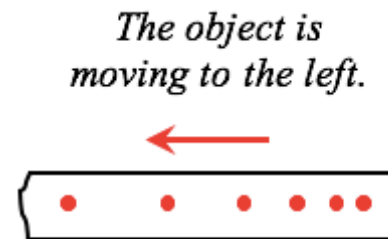
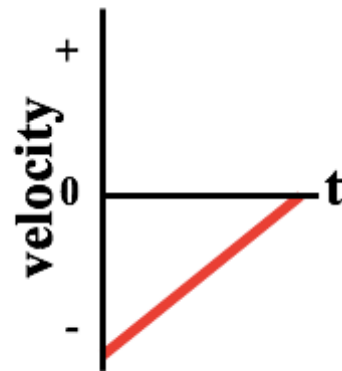


### Question 32

One of these representations is not like the others. Which one doesn't belong?

**"The object is speeding up (i.e., increasing speed)."**

Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s



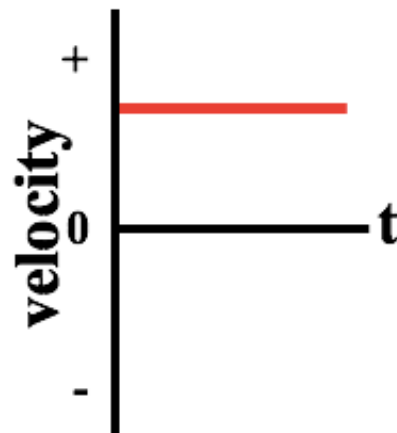
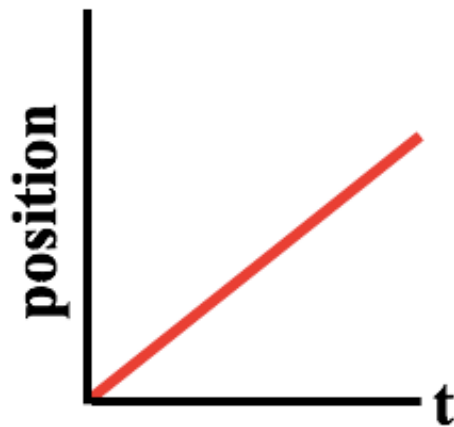


## Question Group 9

### Question 33

One of these representations is not like the others. Which one doesn't belong?

**"The object is  
moving with a  
constant  
speed."**

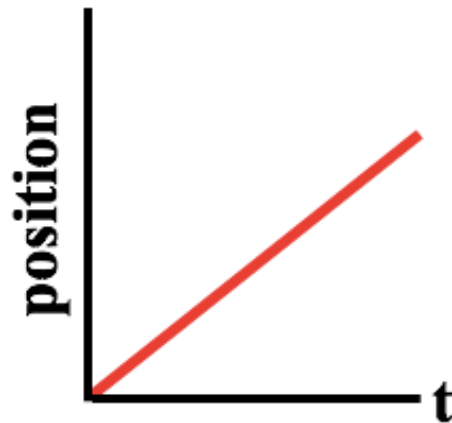
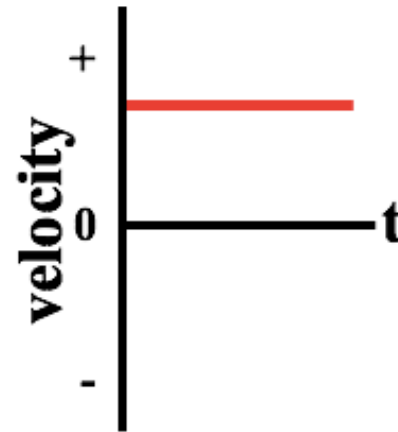


Time	Position
0.0 s	8.0 m
1.0 s	8.0 m
2.0 s	8.0 m
3.0 s	8.0 m
4.0 s	8.0 m



### Question 34

One of these representations is not like the others. Which one doesn't belong?

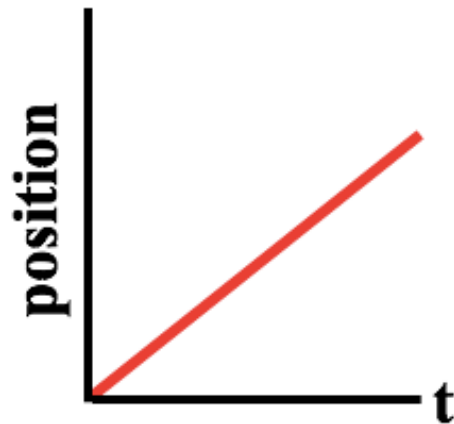
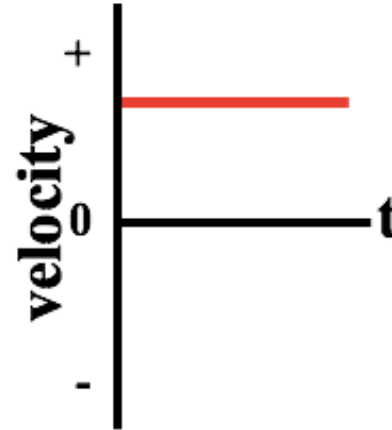


**"The object is  
moving with a  
constant  
speed."**

Time	Position
0.0 s	8.0 m
1.0 s	8.0 m
2.0 s	8.0 m
3.0 s	8.0 m
4.0 s	8.0 m

### Question 35

One of these representations is not like the others. Which one doesn't belong?

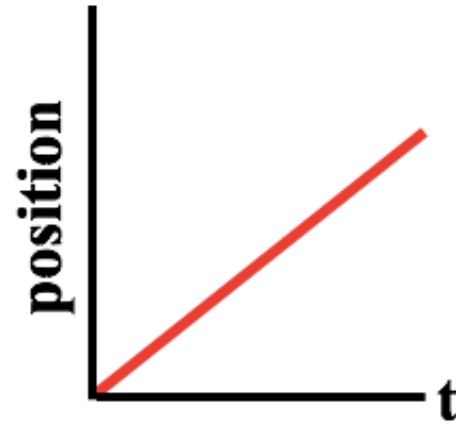
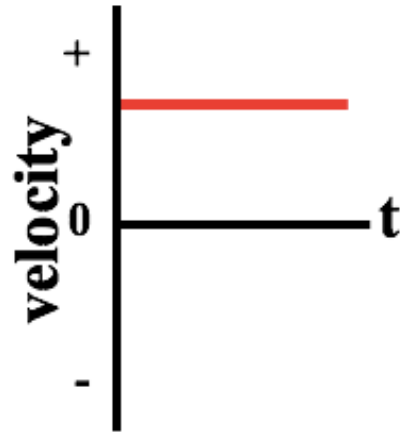


**"The object is speeding up (i.e., increasing speed)."**

Time	Velocity
0.0 s	4.0 m/s
1.0 s	4.0 m/s
2.0 s	4.0 m/s
3.0 s	4.0 m/s
4.0 s	4.0 m/s

### Question 36

One of these representations is not like the others. Which one doesn't belong?



**"The object is speeding up (i.e., increasing speed)."**

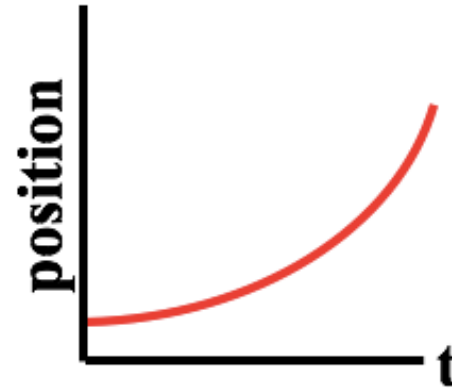
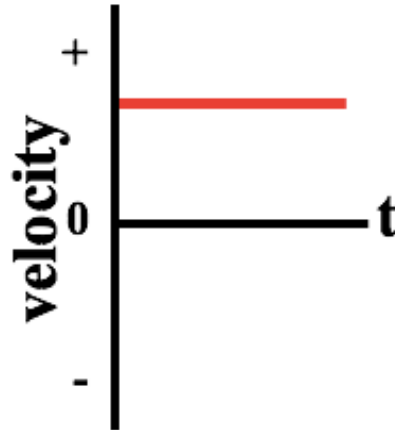


Time	Velocity
0.0 s	4.0 m/s
1.0 s	4.0 m/s
2.0 s	4.0 m/s
3.0 s	4.0 m/s
4.0 s	4.0 m/s

## Question Group 10

### Question 37

One of these representations is not like the others. Which one doesn't belong?



**"The object is speeding up (i.e., increasing speed)."**

*The object is moving to the right.*

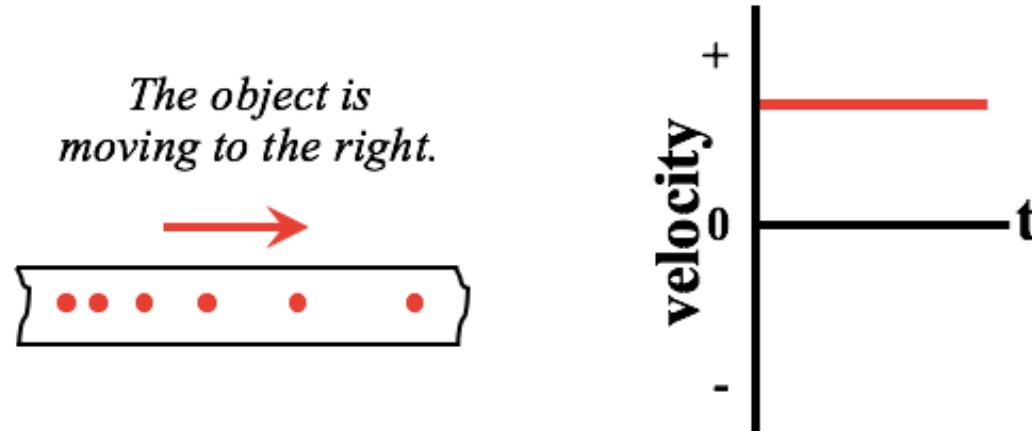


Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s

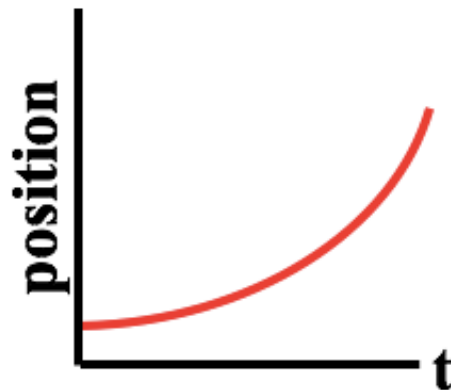


### Question 38

One of these representations is not like the others. Which one doesn't belong?



**"The object is speeding up (i.e., increasing speed)."**

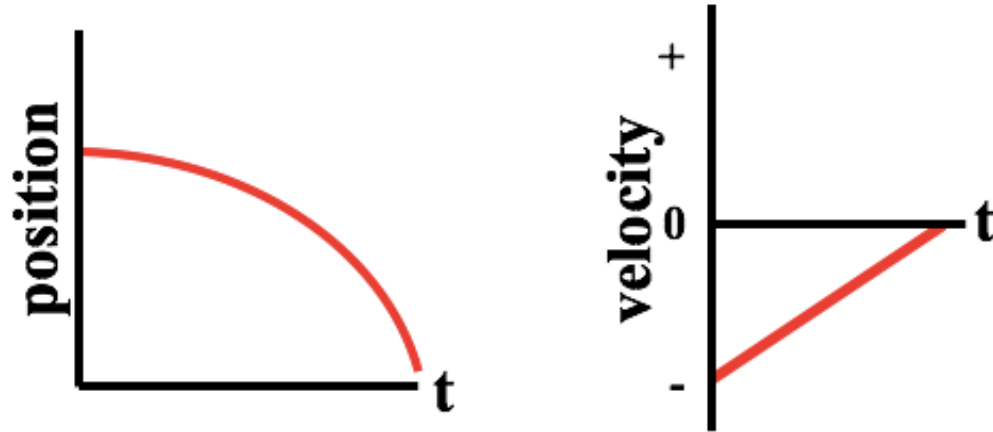


Time	Velocity
0.0 s	0.0 m/s
1.0 s	4.0 m/s
2.0 s	8.0 m/s
3.0 s	12.0 m/s
4.0 s	16.0 m/s



### Question 39

One of these representations is not like the others. Which one doesn't belong?



**"The object is speeding up (i.e., increasing speed)."**

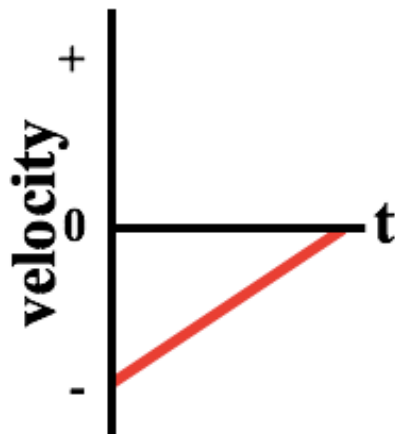
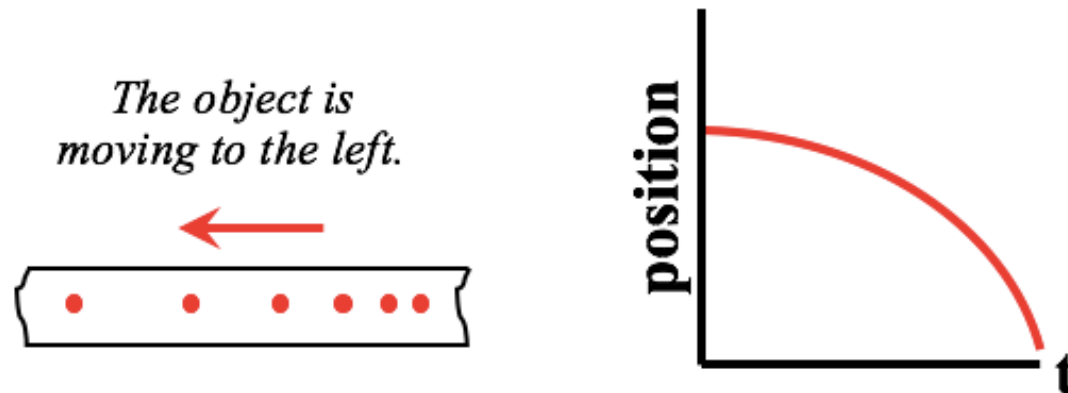
*The object is moving to the left.*



Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s

### Question 40

One of these representations is not like the others. Which one doesn't belong?



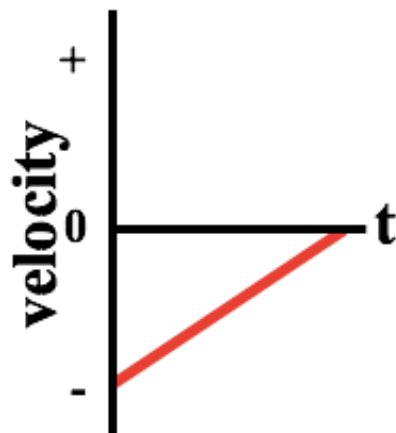
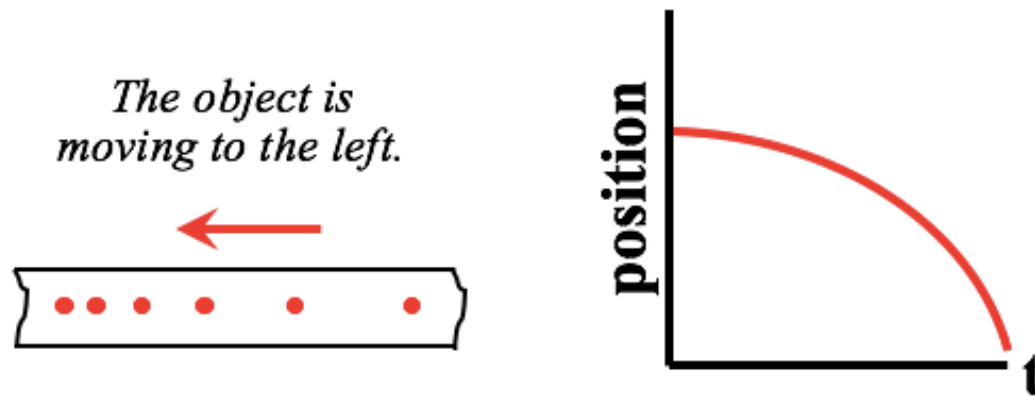
**"The object is speeding up (i.e., increasing speed)."**

Time	Velocity
0.0 s	0.0 m/s
1.0 s	-4.0 m/s
2.0 s	-8.0 m/s
3.0 s	-12.0 m/s
4.0 s	-16.0 m/s

## Question Group 11

### Question 41

One of these representations is not like the others. Which one doesn't belong?



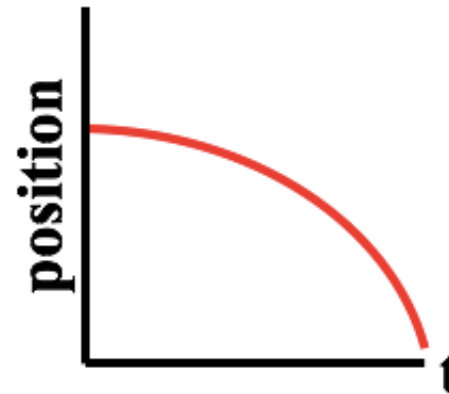
**"The object is slowing down (i.e., decreasing speed)."**

Time	Velocity
0.0 s	-16.0 m/s
1.0 s	-12.0 m/s
2.0 s	-8.0 m/s
3.0 s	-4.0 m/s
4.0 s	0.0 m/s

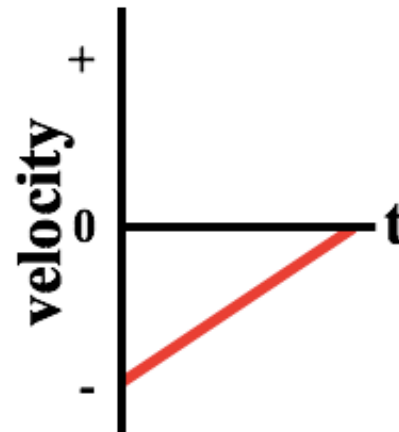
## Question 42

One of these representations is not like the others. Which one doesn't belong?

**"The object is slowing down (i.e., decreasing speed)."**



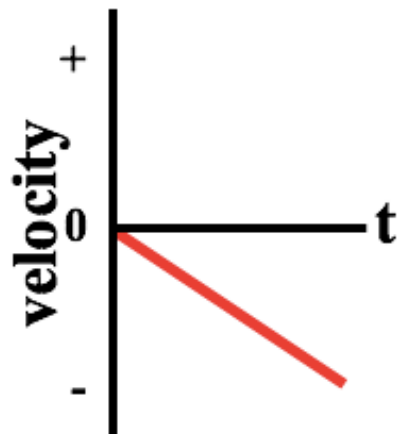
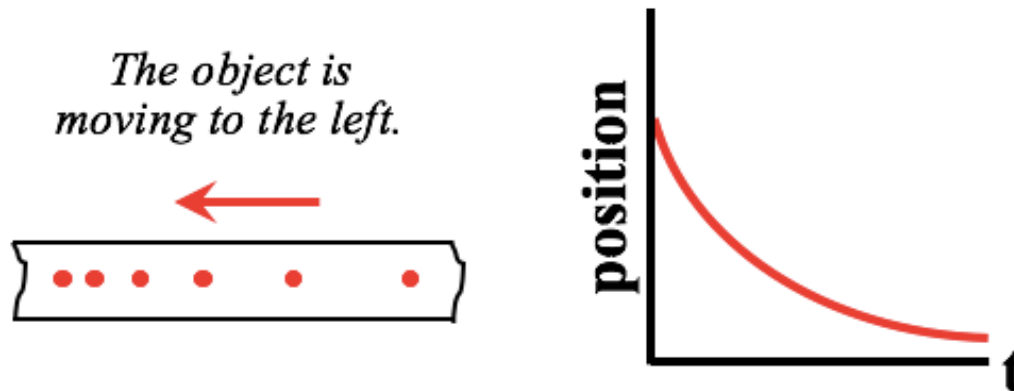
*The object is moving to the left.*



Time	Velocity
0.0 s	-16.0 m/s
1.0 s	-12.0 m/s
2.0 s	-8.0 m/s
3.0 s	-4.0 m/s
4.0 s	0.0 m/s

### Question 43

One of these representations is not like the others. Which one doesn't belong?



**"The object is slowing down (i.e., decreasing speed)."**

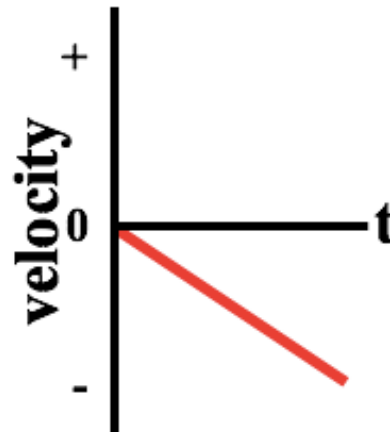
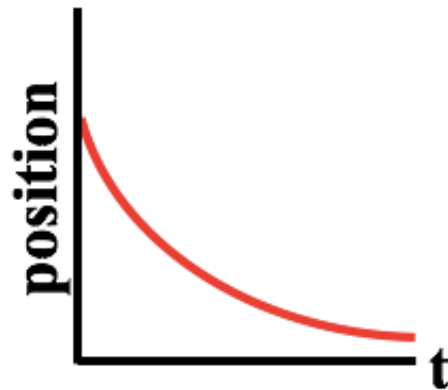
Time	Velocity
0.0 s	-16.0 m/s
1.0 s	-12.0 m/s
2.0 s	-8.0 m/s
3.0 s	-4.0 m/s
4.0 s	0.0 m/s

### Question 44

One of these representations is not like the others. Which one doesn't belong?

**"The object is slowing down (i.e., decreasing speed)."**

*The object is moving to the left.*



Time	Velocity
0.0 s	-16.0 m/s
1.0 s	-12.0 m/s
2.0 s	-8.0 m/s
3.0 s	-4.0 m/s
4.0 s	0.0 m/s

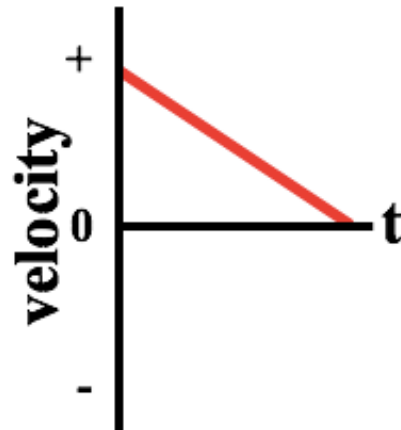
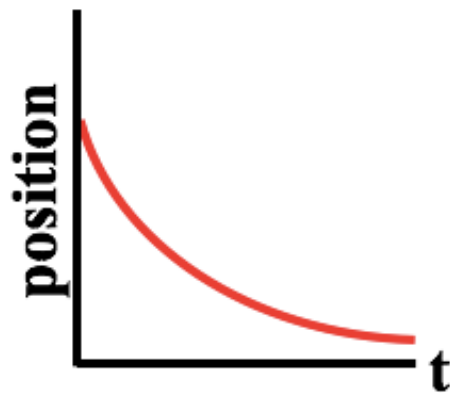
## Question Group 12

### Question 45

One of these representations is not like the others. Which one doesn't belong?

**"The object is  
slowing down  
(i.e., decreasing  
speed)."**

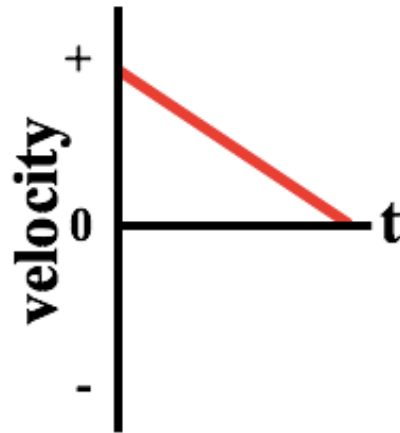
*The object is  
moving to the right.*



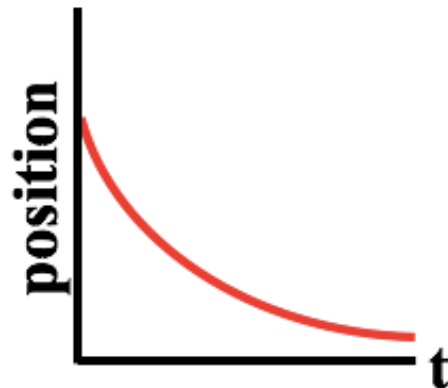
Time	Position
0.0 s	0.0 m
1.0 s	8.0 m
2.0 s	12.0 m
3.0 s	14.0 m
4.0 s	15.0 m

### Question 46

One of these representations is not like the others. Which one doesn't belong?



**"The object is slowing down (i.e., decreasing speed)."**



*The object is moving to the right.*

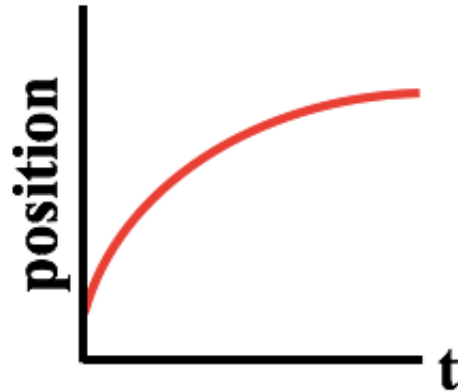


Time	Position
0.0 s	0.0 m
1.0 s	8.0 m
2.0 s	12.0 m
3.0 s	14.0 m
4.0 s	15.0 m

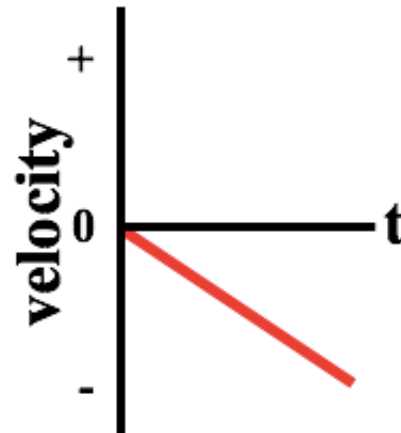
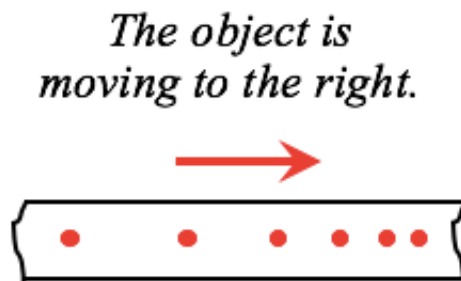


### Question 47

One of these representations is not like the others. Which one doesn't belong?



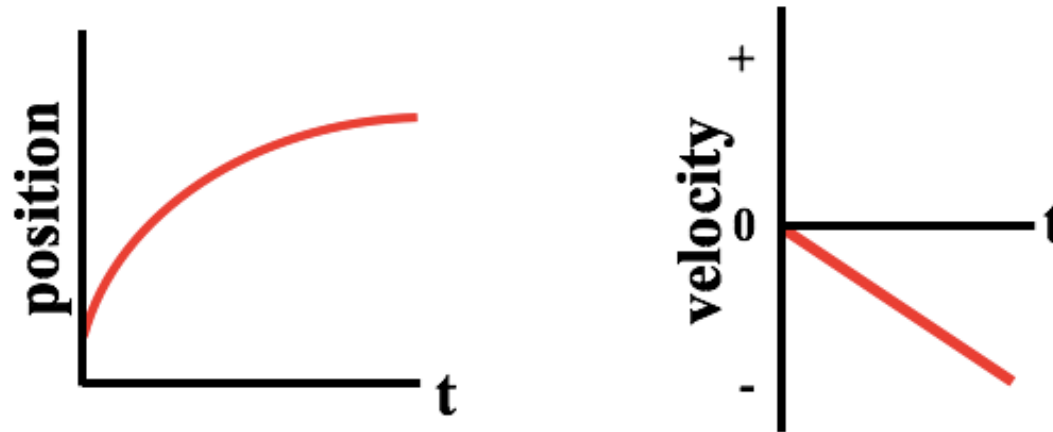
**"The object is slowing down (i.e., decreasing speed)."**



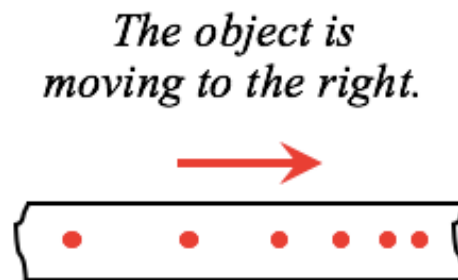
Time	Position
0.0 s	0.0 m
1.0 s	8.0 m
2.0 s	12.0 m
3.0 s	14.0 m
4.0 s	15.0 m

### Question 48

One of these representations is not like the others. Which one doesn't belong?



**"The object is slowing down (i.e., decreasing speed)."**



Time	Position
0.0 s	0.0 m
1.0 s	8.0 m
2.0 s	12.0 m
3.0 s	14.0 m
4.0 s	15.0 m