Relationships and Proportional Reasoning

Set A				Set B					Set C	;		Set D			
Row	x	У		Row	x	У		Row	x	у		Row	x	У	
A	2	2		A	1	4		A	2	12	1	А	2	4	
В	4	8]	В	3	12]	В	3	8	1	В	4	8	
С	6	18	1	С	4	16	1	С	4	6	1	С	6	12	
D	8	32	1	D	9	36	1	D	6	4	1	D	8	16	
E	12	72	1	E	12	48	1	Е	8	3	1	E	12	24	
			,			1	1								

1. Inspect Data Sets A – D. Identify the relationship that each set of x-y data represent – linear, inverse, constant, or quadratic. Write the relationship name in the blank below the Data Set.

- 2 Match the statements to the Data Sets. Write a letter(s) in each blank.
 - a. When x is doubled, y is doubled. \rightarrow _____
 - b. When x is doubled, y is halved. \rightarrow _____
 - c. When x is doubled, y is quadrupled. \rightarrow _____
- 3. Sketch the look of the x-y plot for each Data Set:



- 4. For the indicated Data Sets, predict the value of y for each given value of x.
 - a. Data Set A: When x = 24, the value of y will be _____.
 - b. Data Set B: When x = 24, the value of y will be _____.
 - c. Data Set B: When x = 2, the value of y will be _____.
 - d. Data Set B: When x = 6, the value of y will be _____.
 - e. Data Set C: When x = 16, the value of y will be _____.
 - f. Data Set C: When x = 12, the value of y will be _____.
 - g. Data Set D: When x = 24, the value of y will be _____.
 - h. Data Set D: When x = 16, the value of y will be _____.