I. **Evaluate the following expressions.**

1.
$$\frac{2}{3} - \frac{1}{6} \cdot 4 =$$

$$2. 7 - 2^3 + 3 =$$

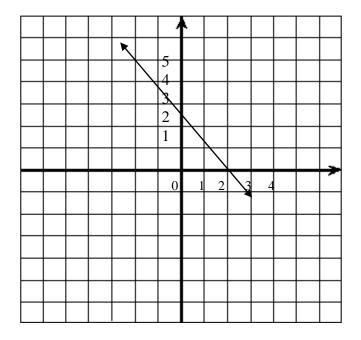
1.
$$\frac{2}{3} - \frac{1}{6} \cdot 4 =$$
 2. $7 - 2^3 + 3 =$ 3. $\frac{-1}{\frac{2}{3}} + \frac{1}{4} =$

Scientific Notation. II.

- Write 1.76×10^{-5} in standard form.
- Write 246,100,000 using scientific notation. 5.

III. Evaluate.

Use the graph of f to evaluate: 6. a) f(2)b) f(-2)



IV. Use the following relationship S to answer the following questions:

$$S = \{(-15, 25), (-5, -30), (0, -5), (5, -10), (10, 15)\}$$

- 7. Make a scatter plot of S. Remember to label the axes.
- Write the domain of S. 8.
- 9. Write the range of S.

V. Sketch.

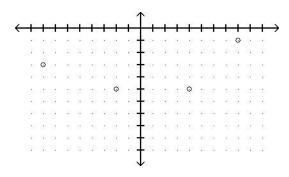
Sketch the graph of f(x) = 2x - 4. Remember to label the axes. 10.

VI. Determine whether the table of f represents a linear function.

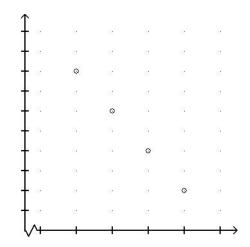
11.						
	X	1	2	3	4	5
	y	-1	1	3	5	7

VII. Express the relation shown in the graph as a set of ordered pairs. Identify the domain and range.

12. [-10, 10, 1] by [-10, 0, 1]



13. [1950, 2000, 10] by [0, 100, 10]



Answers:

- 1. 0
- 2. 2
- 3. $\frac{-1}{2}$
- 4. 0.0000176
- 5. 2.461×10^8
- 6. a) 0 b) 5
- 8. $D = \{-15, -5, 0, 5, 10\}$
- 9. $R = \{-30, -10, -5, 15, 25\}$
- 11. linear function
- 12. $S = \{(8, -1), (4, -5), (-8, -3), (-2, -5)\}$

$$D = \{-8, -2, 4, 8\}$$

$$R = \{-5, -3, -1\}$$

13. $S = \{(1960,80), (1970,60), (1990,20), (1980,40)\}$

$$D = \{1960, 1970, 1980, 1990\}$$

$$R = \{20, 40, 60, 80\}$$