BELL WORK

FUNCTIONS REVISITED

Which of the following relations is a function?

I. {(2, 4), (2, 1), (2, 3)}
II. {(2, 4), (1, 1), (2, 1)}
III. {(2, 4), (1, 4), (3, 4)}
IV. {(2, 4), (4, 1), (3, 2)}

A. I, II, and III only

B. II and IV only

C. III and IV only

D. I and II only

The graphing calculator can be used to evaluate functions for a given x value. Here's how:

1) **Press the** [Y=] **button on your calculator.**
2) **Input the rule into Y_1, using the** [X,T,θ,n] **button for x.**
3) **Press** [2ND] [GRAPH] **to see the TABLE of values for the function.**

If $f(x) = x^2 + 4x$ and $g(x) = 5 - 3x$, find the following.

1. f(-3) = _____

2. g(-5) = _____

3. f(1) + g(3) = _____

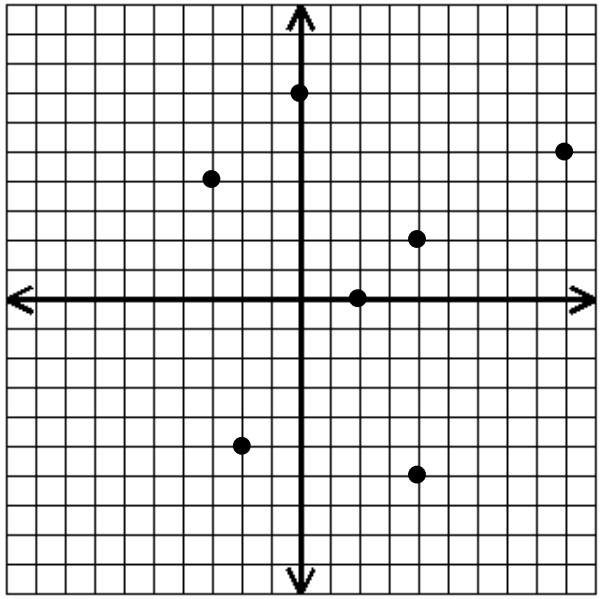
4. f(-2) – g(4) = _____

5. 2[g(-2)] + 3[f(2)] = _____

Brain-Strain: For the function f, f(8) = -3, and f(-3) = 8. If y = f(x), what is the value of y when x = -3?

Use the graph to answer the following.

6) List the points:



7) Domain:

8) Range:

9) Is this a function?

10) Why?

11) f(2) = _____

12) f(-3) = _____

13) f(x) = 7; x = _____

14) f(x) = -6; x = _____

15. Find the domain and range.

D: _____

R: _____