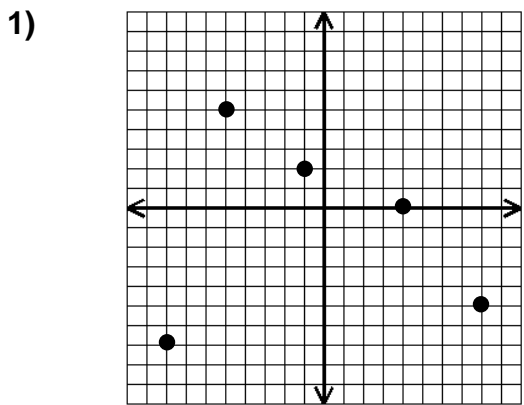## RELATIONS AND FUNCTIONS – DAY 2

🔔 BELL WORK 🔔

1. Claudia purchases paper for her business. Kinko's paper costs $32 per box with free shipping. Mead paper costs $27 per box with a flat shipping fee of $10. Which equation represents the number of boxes of paper p she can buy for both companies to cost the same?

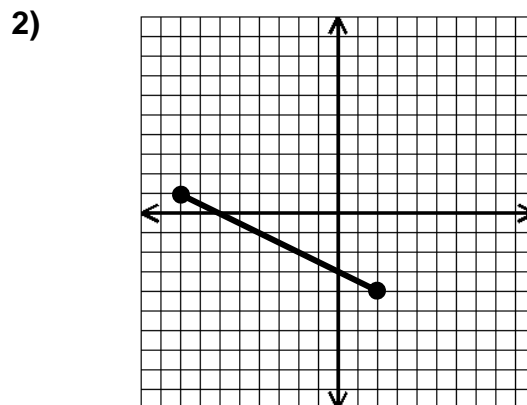A. 32p = 27p   B. 32 + 27p = 10   C. 32p = 27p + 10   D. 27p = 32p + 10

2. Simplify the algebraic expression $5y(0.2x - 3) - 2x(3y + 1) + 6(x + 1)$.
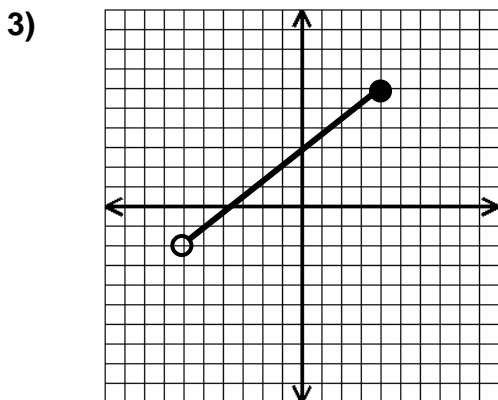
EXAMPLES: Find the domain and range of each graph.
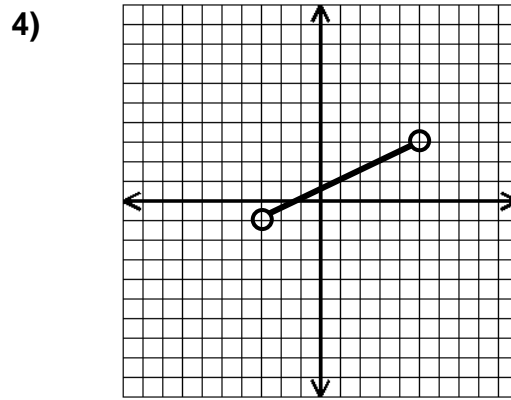
1)

Domain:_____

Range:_____

2)

Domain:_____

Range:_____

3)

Domain:_____

Range:_____

4)

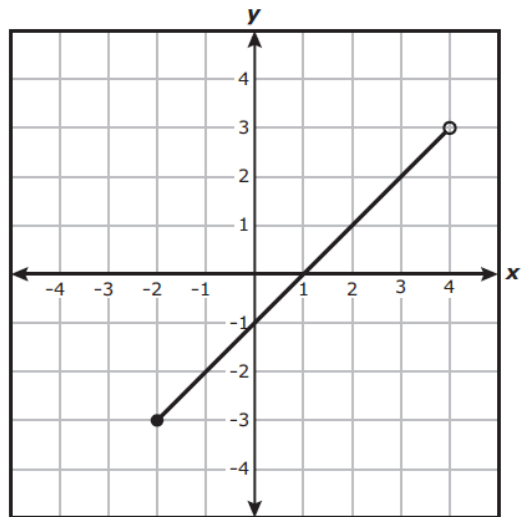Domain:_____

Range:_____

5) Function *f* is graphed below.

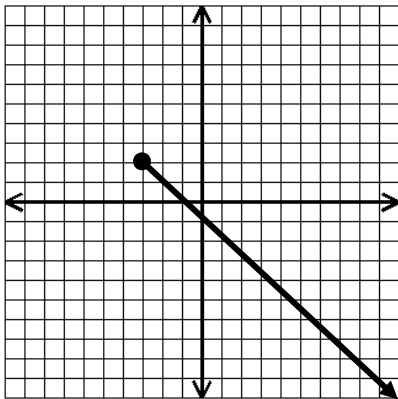What is the range of *f*?

A $\{x|-2 \leq x < 4\}$

B $\{x|-2 < x \leq 4\}$

C $\{y|-3 < y \leq 3\}$
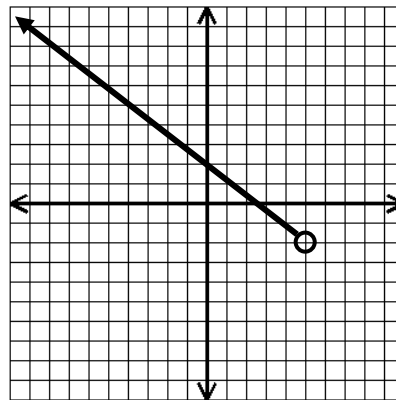
D $\{y|-3 \leq y < 3\}$

6)

Domain:_____

Range:_____

7)

Domain:_____

Range:_____

8) Which graph shows a function with a domain of all real numbers greater than 7?

A

B

C

D