

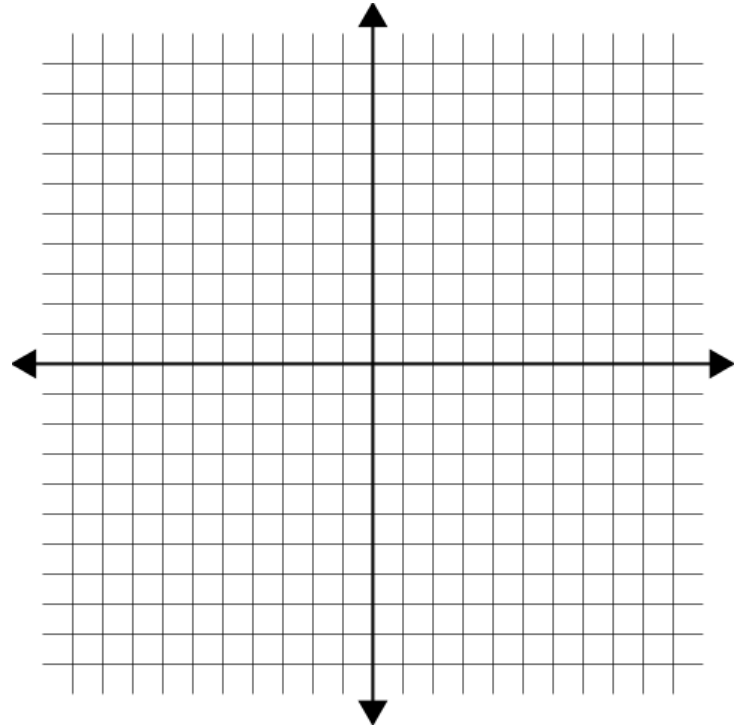
## 8A Review Day 6

Graph the inequalities.

$$2x - 3y \leq 12$$

$$x + y \leq 20$$

$$x \geq 0$$



Write a recursive formula for each sequence.

13, -2, -17, ...

$$f(n) = -16 \cdot (0.5)^{n-1}$$

Write in interval notation.

$$\{x \in \mathbb{R} \mid -3 < x \leq 19\}$$

Write in set notation.

The whole numbers less than 104

Calculate using only your brain.

$$398137390415738120349^0$$

$$\left(\sqrt[50]{771138943555}\right)^{50}$$

Mr. Carlson starts mowing lawns to make some extra money. He charges a flat rate of \$10 per lawn with an additional charge of \$0.01 per square foot of grass. Mr. Carlson's arch-nemesis, Charles "Dizzy" Gunderson, starts his own business to compete with Mr. Carlson. Dizzy charges \$6 per lawn with an additional \$0.05 per square foot of grass. Write equations for each of the functions that model the costs of the two lawn dudes.

Domain?

Discrete or Continuous? Why?

Determine the size of a lawn that would cost the same to mow regardless of the person selected.

Use the function  $g(x) = -3 + \frac{64}{x^2}$  to find the following values.

$$g(8)$$

$$g(-8)$$

$$g(-2)$$

$$g(0.5)$$