

Objective: Find the key features of a linear function given in standard form.

Key Concepts:

Standard Form: $Ax + By = C$

x-intercept: $(\frac{C}{A}, 0)$

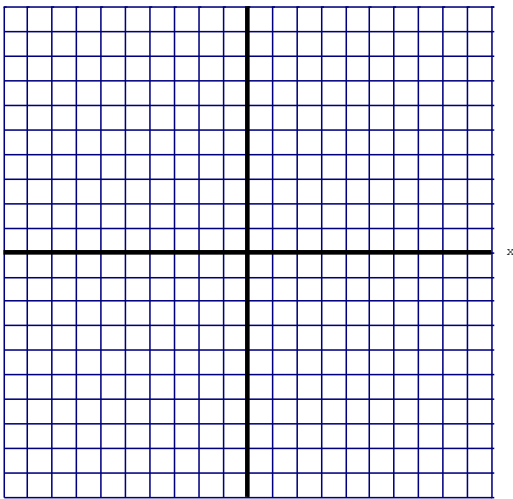
y-intercept: $(0, \frac{C}{B})$

slope: $-\frac{A}{B}$

Find the x and y intercepts for each equation in standard form and use them to graph the linear function.

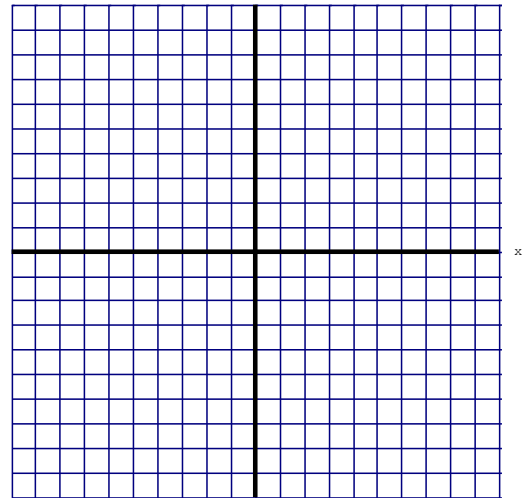
1. $3x + 6y = 12$

x-int: _____ y-int: _____ m= _____



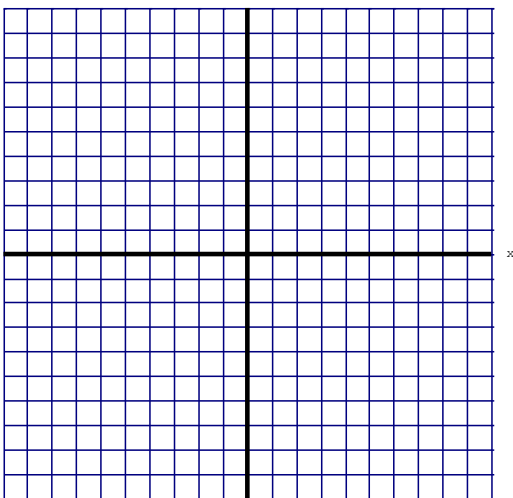
2. $2x - 5y = 10$

x-int: _____ y-int: _____ m= _____



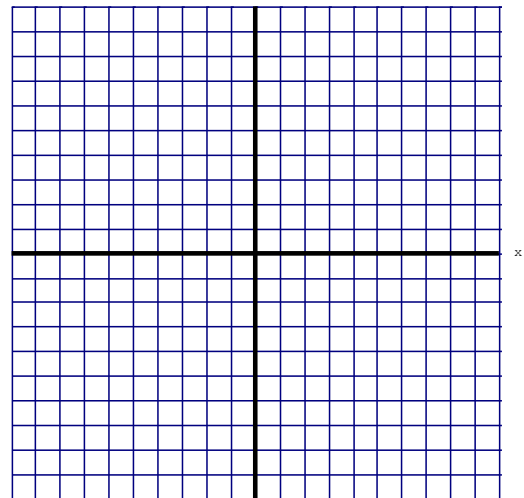
3. $-5x + 4y = 40$

x-int: _____ y-int: _____ m= _____



4. $8x - 6y = -30$

x-int: _____ y-int: _____ m= _____



- Mrs. Pischke has \$400 to spend on chairs for her pool deck. Traditional chairs cost \$50 each and lounge chairs she can lay out on cost \$100 each. Write an inequality in standard form expressing this scenario.
- How many lounge chairs can Mrs. Pischke buy if she purchases 5 traditional chairs?
- Find the x and y intercepts for problem 5. What do the x and y intercepts mean in context?