Standard Form: Ax + By = C

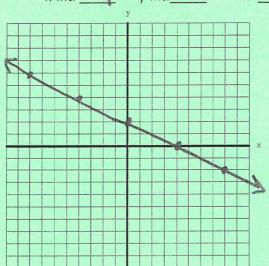
x-intercept: $(\frac{C}{4}, 0)$ y-intercept: $(0, \frac{C}{R})$ slope: $-\frac{A}{R}$

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

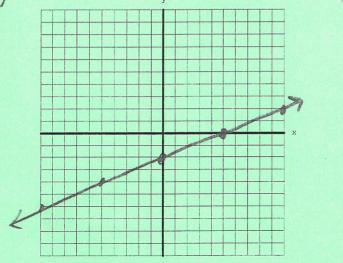
1.
$$3x + 6y = 12$$

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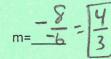
x-int: y y-int: z $m = \frac{3}{7} = \frac{1}{2}$

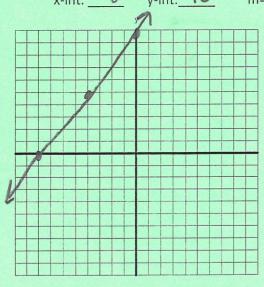


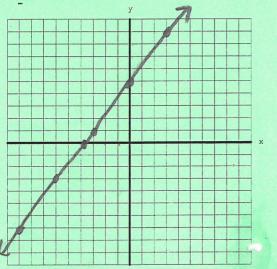
2. 2x - 5y = 10x-int: 5 y-int: -2 m = -5 - 5



4. 8x - 6y = -30x-int: -3.75 y-int: 5







5. 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.

400 2 50x+1004

6. How many lounge chairs can Mrs. Pischke buy if she purchases 5 traditional chairs?

400 2 50 (5) +1004 400 2 250+1004 150 2 1004 451.5

She can buy

7. Find the x and y intercepts for problem 5. What do the x and y intercepts mean in context?

X-int (8,0) could buy all traditional Chairs ... 8

4-int (0,4) could buy all large thairs ... 4