

Name: _____

Date: _____

Math 9 HW Section 4.3 Graphing Lines in the form of $Ax+By=C$

1. Given each equation below, find the "X" and "Y" intercepts:

a) $2x + 3y = 6$ x-Intercept : y-Intercept:	b) $4x + 5y = 10$ x-Intercept : y-Intercept:	c) $4y - 3x = 24$ x-Intercept : y-Intercept:
d) $3x - 4y = -12$ x-Intercept : y-Intercept:	e) $2y - 3x = \frac{5}{2}$ x-Intercept : y-Intercept:	f) $x - y = 2x - 4$ x-Intercept : y-Intercept:
g) $y = 3x - 4$ x-Intercept : y-Intercept:	h) $\frac{3}{2}x + 0.25y = 12$ x-Intercept : y-Intercept:	i) $\frac{y-2x}{3} = 1$ x-Intercept : y-Intercept:

2. Explain why the y-coordinate is zero when we are looking at the x-intercept:

3. Explain why the x-coordinate is zero when we are looking at the y-intercept:

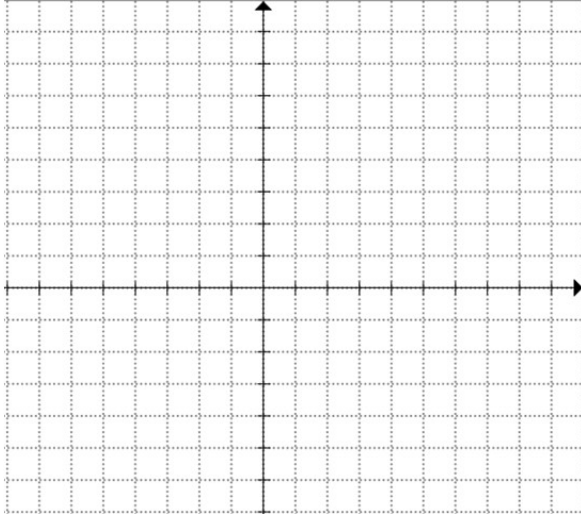
4. Jack is taking the taxi and the cost "C" is given by the function: $C = 2.5x + 4$, where "x" the distance travelled in km. What does the y-intercept represent in this function?

5. Given each of the following line equations, which one has the largest y-intercept?

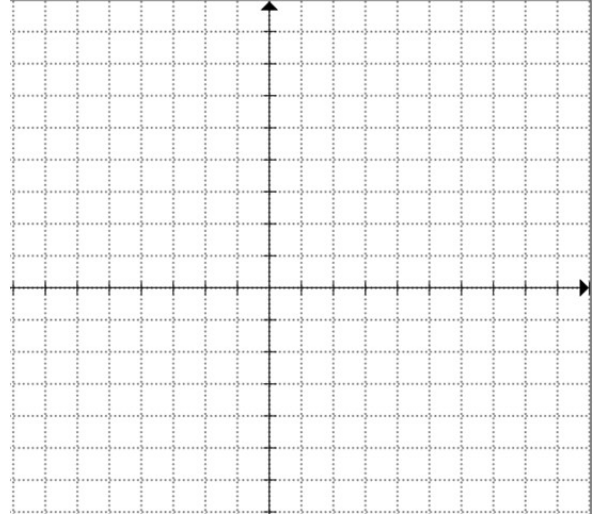
i) $2x + 4y = 12$, ii) $3y - 3 = 12x$, iii) $3x - y = 15$, iv) $y = 3x - 8$

6. Given the following equation, draw the graph with the grid provided. Label the coordinates of the intercepts:

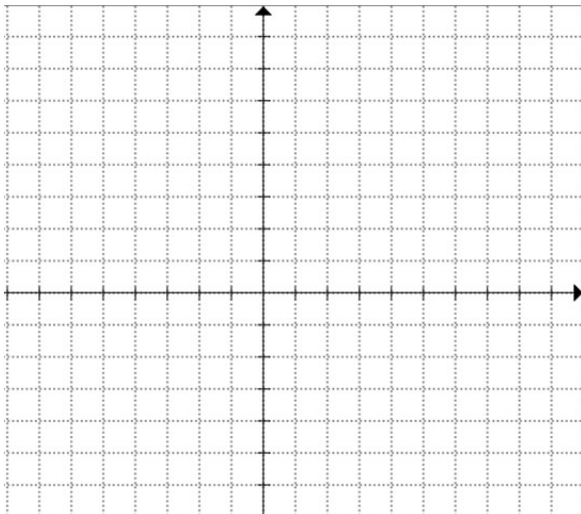
A) $2x + 3y = 6$



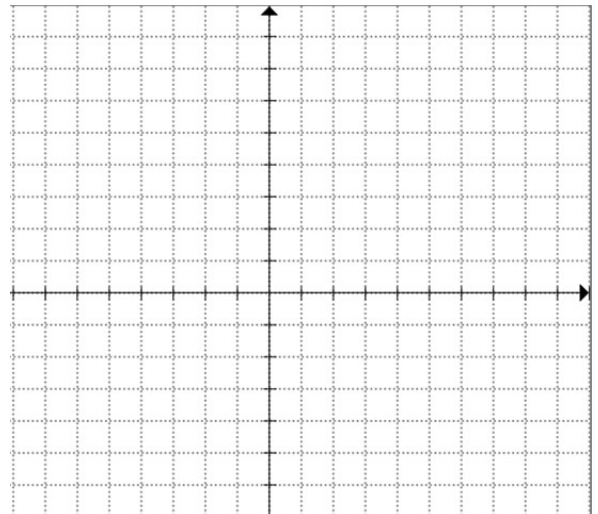
b) $x + 2y = 8$



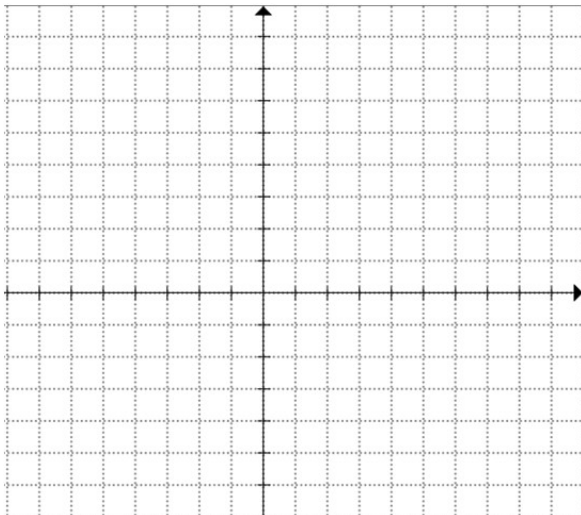
c) $4y - 3x = 12$



d) $5x - 4y = -20$



e) $1.25x - 5y = 10$



f) $4y - 3x = 13$

