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:

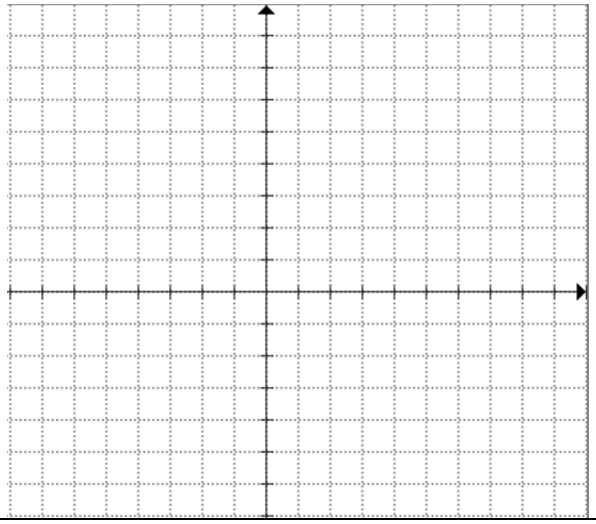
3. Explain why the x-coordinate is zero when we are looking at the y-intercept:

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?

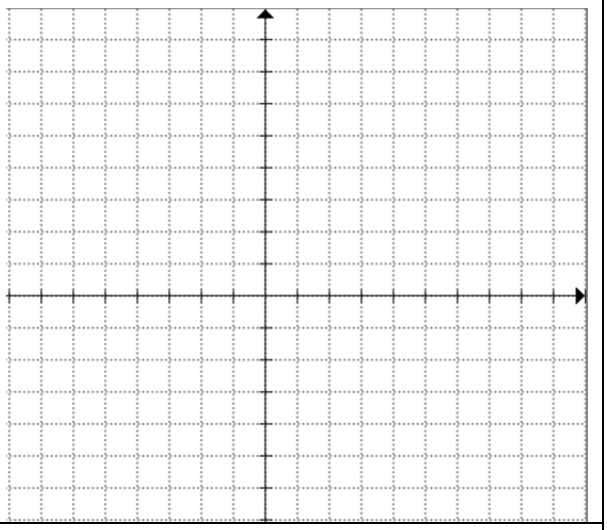
5. Given each of the following line equations, which one has the largest y-intercept?
   i) $2x+4y=12$, ii) $3y-3=12x$, iii) $3x-y=15$, iv) $y=3x-8$

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

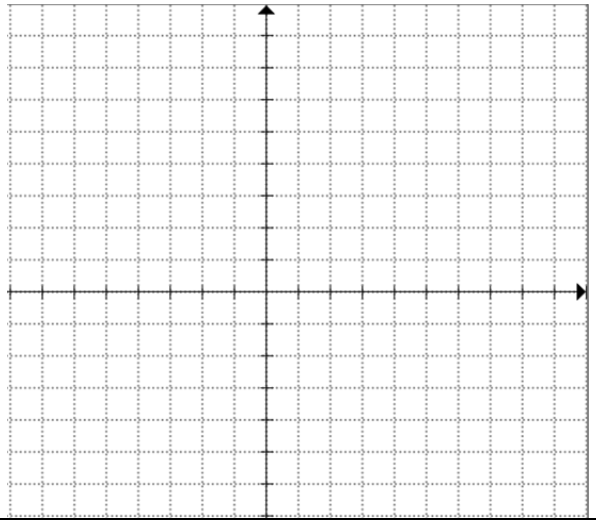
A) $2x+3y=6$



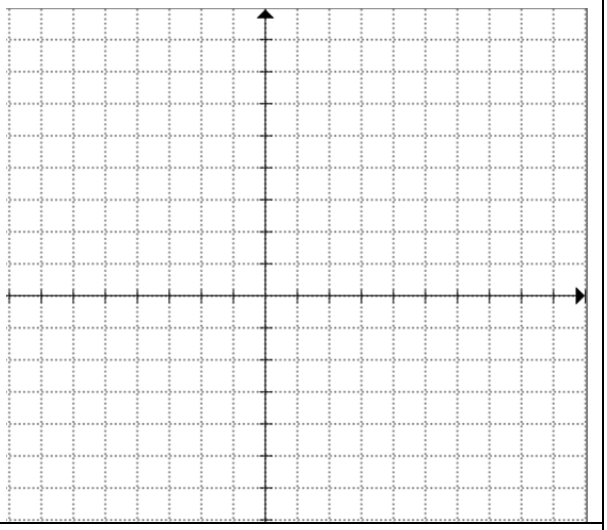
b) $x+2y=8$



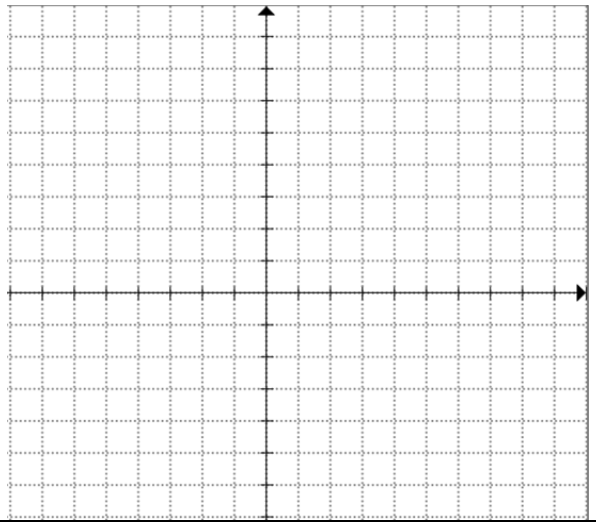
C) $4y-3x=12$



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



e) $1.25x-5y=10$



f) $4y-3x=13$