

Chapter 6.4:
x and y intercepts

x-intercept: where the line crosses the x-axis.

To find: 1. Sub in $y = 0$ into the linear equation, $(\#,0)$

2. Look at the graph.

3. Cover Up method.

y-intercept: where the line crosses the y-axis.

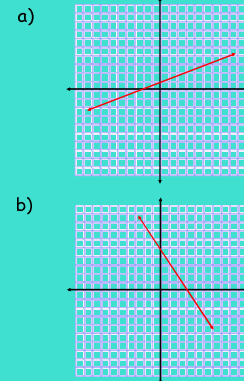
To find: 1. Sub in $x = 0$ into the linear equation, $(0,\#)$

2. Look at the graph

3. Cover Up method.

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Ex1) Find the x and y intercepts off a graph.



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Ex2) Find the x and y intercepts given a linear equation:

a) $2x + 3y = 6$



b) $y = -2x + 4$



Try1) $2x + 5y = 10$



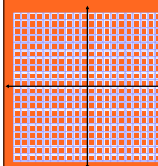
Try2) $y = \frac{1}{2}x + 3$



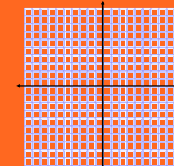
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Ex3) Graph the linear equation by using the x and y intercepts.

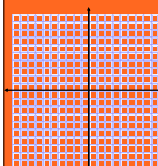
a) $3x - y = -6$



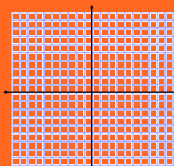
b) $y = -\frac{1}{2}x + 4$



c) $y = -6$



d) $x = 4$



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