

## Graphing Lines

The lines below are given in slope-intercept form. Find the slope, y-intercept (b), and then graph the line.

1)  $y = 2x + 3$

m =							
b =							
<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">x</td> <td style="padding: 2px 5px;">y</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </table>	x	y					
x	y						

2)  $y = -x + 1$

m =							
b =							
<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">x</td> <td style="padding: 2px 5px;">y</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </table>	x	y					
x	y						

3)  $y = \frac{2}{3}x - 2$

m =							
b =							
<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">x</td> <td style="padding: 2px 5px;">y</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </table>	x	y					
x	y						

4)  $y = -\frac{3}{5}x + 4$

m =							
b =							
<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">x</td> <td style="padding: 2px 5px;">y</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </table>	x	y					
x	y						

5)  $y = \frac{5}{2}x - 3$

m =							
b =							
<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">x</td> <td style="padding: 2px 5px;">y</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </table>	x	y					
x	y						

6)  $y = -\frac{1}{4}x - 1$

m =							
b =							
<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px 5px;">x</td> <td style="padding: 2px 5px;">y</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> </tr> </table>	x	y					
x	y						

The lines below are given in standard form. Find the x- and y-intercepts, a third point and then graph the line.

7)  $3x + 2y = -6$

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x	y						

8)  $2x - 4y = 4$

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x	y						

9)  $-5x + 2y = 10$

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x	y						

10)  $6x + 3y = 12$

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x	y						

11)  $x - 2y = 6$

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x	y						

12)  $3x + y = 3$

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x	y						