Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12/4/2014

Find the equation of the line with the given slope that passes through the given point. Write the equation of the line in point-slope form.

y – y1 = m (x - x1)

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| --- | --- | --- | --- |
| 1. m = 2 and (-1, -3)  | 2. m = -7 and (1, -1) ` | 3. m = -2 and (-5, -2)  | 4. m = 6 and (-2, 5)  |

Find the equation of each line graphed below. Write in point slope form.

|  |  |
| --- | --- |
| http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png  | point ( , )m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_y – y1 = m (x - x1)­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png  | point ( , )m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_y – y1 = m (x - x1)­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png | point ( , )m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_y – y1 = m (x - x1)­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Graph the equation in point slope form below.

|  |  |
| --- | --- |
| y – 2 = $\frac{1}{2}$ (x – 1)point ( , )m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png |
| y + 2 = $\frac{2}{5}$ (x + 1)point ( , )m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png |
| y - 2 = $\frac{-1}{3}$ (x + 1)point ( , )m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png |