8th grade Review Test Feb 1

 Part I find the x and y Intercepts

 



Part III find the x and y intercepts from the given equations

1. $3x-7y=21$
2. $5x-2y=10$
3. $y=-x=4$

Part IV Use the slope formulato solve each exercise

1. (2,5) , (8,1)
2. (3,6) and ( 6,9)

Parts V use the slope formula to find the slope and graph each equation.

1. $4x-2y=16$
2. $8x+2y=96$

VI Tell whether each equation reprersents a direct variation if so identify the constant of variation

1. $y=3x$
2. $3x+y=8$
3. $-4x+3y=0$

Part VII Tell whether each relationship is a direxct variation

|  |  |  |  |
| --- | --- | --- | --- |
| x | 2 | 4 | 6 |
| y | 6 | 12 | 18 |

|  |  |  |  |
| --- | --- | --- | --- |
| x | 1 | 3 | 7 |
| y | -2 | 0 | 4 |

1. The value of y varies directly with x and y=3 when x = 9. Find y when x = 21

P)art VIII Write the equation that describes each line in slope-intercept form

1. Slope = $\frac{1}{4}$; y-intercept = 4
2. Slope = -9; y-intercept = $-\frac{5}{4}$
3. Slope =2; (3,4) is on the line

Part IX Write each equation in slope-intercept form. Then graph the line described by the equation.

1. $y=3x-1$
2. $2y+3x=6$

Part V Write an equation in point-slope form for the line with the given slope that contains the given point

1. Slope = $\frac{1}{6}$; (5,1)
2. Slope =-4; (0,3)
3. Slope = 1;(-1,-4)