Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Sketching Lines Practice Hour \_\_\_\_\_\_\_ Date: 8/9/23

Paper and Pencil Sketching of Lines (Point Slope Form) This is the ORIGINAL FORMAT of the Point Slope Form

This form CANNOT be graphed in function mode

|  |  |  |
| --- | --- | --- |
|  | Graph 1$$y-5=2(x-3)$$Label implied point, x intercept, and y intercept | Show work to find the intercepts hereWhat is the implied point? \_\_\_\_\_\_\_\_\_\_ (be careful with signs!)What is the slope? m = \_\_\_\_\_ What is the y intercept? (0, \_\_\_\_) b= \_\_\_\_\_What is the x intercept? (\_\_\_\_,0)Convert to slope intercept form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Graph 2$$y+4=\frac{-3}{2}(x+6)$$Label implied point, x intercept, and y intercept | Show work to find the intercepts hereWhat is the implied point? \_\_\_\_\_\_\_\_\_\_ (be careful with signs!)What is the slope? m = \_\_\_\_\_ What is the y intercept? (0, \_\_\_\_) b= \_\_\_\_\_What is the x intercept? (\_\_\_\_,0)Convert to slope intercept form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Graph 3$$y=\frac{-1}{3}(x-6)$$Label implied point, x intercept, and y intercept | Show work to find the intercepts hereWhat is the implied point? \_\_\_\_\_\_\_\_\_\_ (be careful with signs!)What is the slope? m = \_\_\_\_\_ What is the y intercept? (0, \_\_\_\_) b= \_\_\_\_\_What is the x intercept? (\_\_\_\_,0)Convert to slope intercept form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Note: $y=\frac{-1}{3}\left(x-6\right) $is also called X intercept form! |

Paper and Pencil Sketching of Lines (Modified Point Slope Form) This FORMAT of Point Slope Form can be graphed in function mode

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|  | Graph 4$$y=3\left(x-4\right)+6$$Label implied point, x intercept, and y intercept | Show work to find the intercepts hereWhat is the implied point? \_\_\_\_\_\_\_\_\_\_ (be careful with signs!)What is the slope? m = \_\_\_\_\_ What is the y intercept? (0, \_\_\_\_) b= \_\_\_\_\_What is the x intercept? (\_\_\_\_,0)Convert to slope intercept form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Graph 5$$y=\frac{-3}{5}\left(x+10\right)-2$$Label implied point, x intercept, and y intercept | Show work to find the intercepts hereWhat is the implied point? \_\_\_\_\_\_\_\_\_\_ (be careful with signs!)What is the slope? m = \_\_\_\_\_ What is the y intercept? (0, \_\_\_\_) b= \_\_\_\_\_What is the x intercept? (\_\_\_\_,0)Convert to slope intercept form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Graph 6$$y=\frac{-4}{3}\left(x+12\right)+6$$Label implied point, x intercept, and y intercept | Show work to find the intercepts hereWhat is the implied point? \_\_\_\_\_\_\_\_\_\_ (be careful with signs!)What is the slope? m = \_\_\_\_\_ What is the y intercept? (0, \_\_\_\_) b= \_\_\_\_\_What is the x intercept? (\_\_\_\_,0)Convert to slope intercept form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |