1) Graph the following lines by plotting the y-intercept, then using the slope to get more points, then using a ruler to finish drawing the line. ➂ each.

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|  |  |
| --- | --- |
| a) $y=\frac{1}{5}x+4$ | b) $y=3x-5$ |
| Slope (m) = | Slope (m) = |
| y-int (b) = | y-int (b) = |
|  |  |
| c) $y=-\frac{1}{3}x+4$ | d) $y=x-8$ |
| Slope (m) = | Slope (m) = |
| y-int (b) = | y-int (b) = |
|  |  |
| e) $y=6$ | b) $y=2x$ |
| Slope (m) = | Slope (m) = |
| y-int (b) = | y-int (b) = |
|  |  |
| c) $y=-\frac{4}{3}x+1$ | d) $y=-5x+9$ |
| Slope (m) = | Slope (m) = |
| y-int (b) = | y-int (b) = |
|  |  |

2) Mr. Smith has graphed a line for you. You need to figure out the slope of the line, the y-intercept of the line, and then from there write out the equation in $y=mx+b$ form. ➂ each.

|  |  |
| --- | --- |
| a) | b) |
| Slope (m) = | Slope (m) = |
| y-int (b) = | y-int (b) = |
| Equation: $y=$ | Equation: $y=$ |
| c) | d) |
| Slope (m) = | Slope (m) = |
| y-int (b) = | y-int (b) = |
| Equation: $y=$ | Equation: $y=$ |