Honors Geometry
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Slope, Slope-Intercept Form, Point-Slope Form
Write the slope-intercept form of the equation of each line given the slope and $y$-intercept.

1) Slope $=-\frac{6}{5}, y$-intercept $=4$
2) Slope $=7, y$-intercept $=-3$

Write the slope-intercept form of the equation of the line through the given point with the given slope.
3) through: $(-1,-3)$, slope $=6$
4) through: $(4,1)$, slope $=1$
5) through: $(-2,3)$, slope $=1$
6) through: $(-5,-2)$, slope $=-3$

Write the point-slope form of the equation of the line through the given point with the given slope.
7) through: $(-5,-3)$, slope $=-\frac{1}{5}$
8) through: $(-1,5)$, slope $=-9$
9) through: $(-5,0)$, slope $=-\frac{4}{5}$
10) through: $(-2,-5)$, slope $=\frac{1}{2}$

Write the point-slope form of the equation of the line through the given points.
11) through: $(-2,2)$ and $(0,1)$
12) through: $(-1,3)$ and $(0,0)$
13) through: $(-2,3)$ and $(2,1)$
14) through: $(-4,0)$ and $(0,-1)$

Write the slope-intercept form of the equation of the line through the given points. Use point-slope form.
15) through: $(-2,-1)$ and $(-5,4)$
16) through: $(1,-3)$ and $(0,-1)$
17) through: $(-5,0)$ and $(-4,4)$
18) through: $(-5,-2)$ and ( $0,-4)$

## Answers to Slope, Slope-Intercept Form, Point-Slope Form

1) $y=-\frac{6}{5} x+4$
2) $y=7 x-3$
3) $y=6 x+3$
4) $y=x-3$
5) $y=x+5$
6) $y=-3 x-17$
7) $y+3=-\frac{1}{5}(x+5)$
8) $y-5=-9(x+1)$
9) $y=-\frac{4}{5}(x+5)$
10) $y+5=\frac{1}{2}(x+2)$
11) $y-2=-\frac{1}{2}(x+2)$
12) $y-3=-3(x+1)$
13) $y-3=-\frac{1}{2}(x+2)$
14) $y=-\frac{1}{4}(x+4)$
15) $y=-\frac{5}{3} x-\frac{13}{3}$
16) $y=-2 x-1$
17) $y=4 x+20$
18) $y=-\frac{2}{5} x-4$
