$\qquad$ Period $\qquad$
Find the vertical and horizontal intercepts of the line and then sketch its graph.

1) $4 x-5 y=20$

2) $x+2 y=-4$


Identify the slope and the $\boldsymbol{y}$-intercept of the line and then sketch its graph.
3) $y=-\frac{6}{5} x+2$

5) $y=-3 x-5$

4) $y=\frac{4}{3} x-4$

6) $y=6 x-3$


PLEASE SHOW ALL WORK ON A SEPARATE SHEET OF PAPER.
If you cram it on here, you will be asked to redo the assignment and resubmit. The assignment will be considered late.

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

Write the slope-intercept form of the equation of the line through the given points.
11) through: $(-1,-5)$ and $(3,-4)$
12) through: $(-5,-3)$ and $(-3,-4)$

Find the value of $\boldsymbol{k}$ and write the equation of the line described.
13) A line passes through the points $(k+10,-2 k-1)$ and $(2,9)$ and has a $y$-intercept of 10 .
14) A line passes through the points $(k+9,-4 k-3)$ and $(-2,1)$ and has a $y$-intercept of 9 .
15) A line passes through the points $(4 k-1,8 k-8)$ and $(3,-8)$ and has a $y$-intercept of -6 .

Write the equation of the line through the given point.
16) A horizontal line through $(4,7)$
17) A vertical line through ( $-3,-2$ )

Write the slope-intercept form of the equation of the line described.
18) The $x$-intercept of a line is 2 and the $y$-intercept is 4 .

Write the slope-intercept form of the equation of each line. Then identify its slope.
19) $x-7 y=35$
21) $7 x+2 y=33$
20) $4 x-3 y=1$
22) $7 x-6 y=-24$
23) $5 x+2 y=24$
24) $11 x+5 y=-35$

