Name: _____

Date: _____ Per: ____

Identify the slope and *y*-intercept after making the change to the original. Graph the new line.





5) What would be the new equation of the line if y = 2x + 3 is shifted 4 units up?

6) What would be the new equation of the line if $y = -\frac{1}{2}x + 6$ is shifted 8 units down?

7) What is the effect on the graph of the equation y = 4x - 1 if the *y*-intercept is changed to -4?

8) What is the effect on the graph of the equation y = 2x + 3 if the slope is reduced by half?

9) Place the following equations in order from most steep to least steep?

$$y = 3x - 5$$

 $y = -\frac{1}{3}x + 2$
 $y = 6 - 5x$
 $y = \frac{1}{2}x - 1$
Order:
Find the value of x so that the function has the given value. Leave answers in IMPROPER
FRACTION.
 $f(x) = 6x + 9$
 $g(x) = -x + 5$
 $h(x) = \frac{1}{2}x - 10$
 $j(x) = -2x - 21$
10) $f(3) =$
11) $g(-9) =$
12) $j(-6) =$
13) $h(0) =$
14) $f\left(-\frac{1}{3}\right) =$
15) $g\left(\frac{1}{2}\right) =$
16) $h\left(\frac{1}{2}\right) =$
17) $j\left(\frac{1}{2}\right) =$
18) $f(2) + g(2) =$
19) $f(2) + g(2) =$
10) $f(3) =$
10) $f(3) =$
11) $g(-9) =$
12) $j(-6) =$
13) $h(0) =$
14) $f\left(-\frac{1}{3}\right) =$
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18) $f(2) + g(2) =$
19) $f(3) + g(3) + g(3) =$
10) $f(3) + g(3) + g(3$