

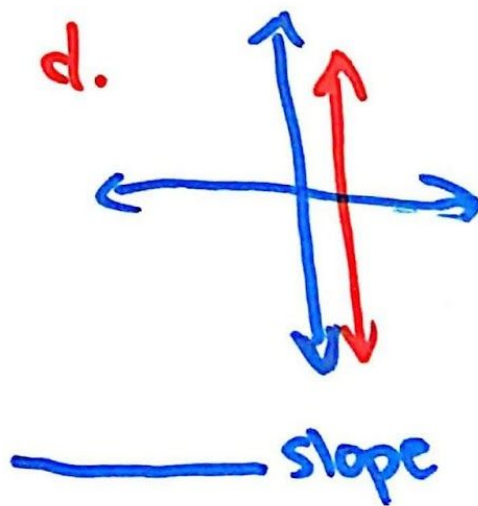
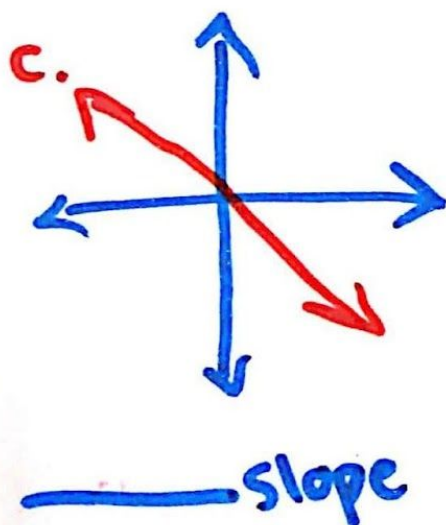
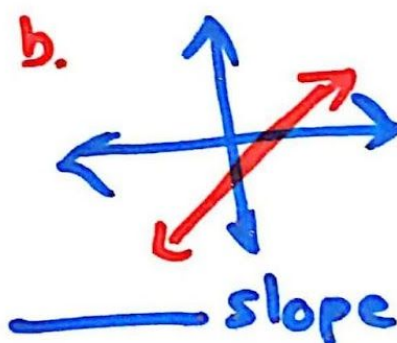
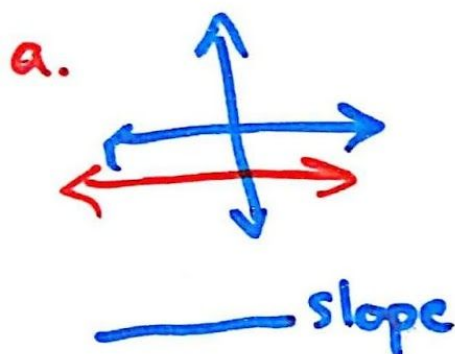
Linear Functions: Practice

1. Rise = the difference in y values of 2 points on a line,
~~rise~~ true or false?

(circle one)

2. Slope equals $\frac{\text{rise}}{\text{run}}$ ← fill in the blank

3. What kind of slope is this?



Linear Functions: Practice Cont.

4. Find the slope:

a. $(1, -2)$ $(4, -8)$ b. $(3, 7)$ $(-2, -6)$

5. Convert to slope intercept form:

a. $5y - 4 = 2x$ b. $3y + 8 = 4x$

6. Substitute the values into the equation:

Slope = 6 y-int = 4:

Equation:

7. Write an equation from the points
 $(3, 2)$ and $(6, -9)$:

Linear Functions: Practice Cont.

8. Write in point-slope form:

a. Slope = $\frac{3}{2}$; $(-5, 1)$ b. slope = -3 ; $(4, -2)$

9. Graph $y = \frac{5}{2}(x+3)$



10. ~~Write~~ if a line has this equation:
 $y = 3x + 8$, what is a possible
equation of a line parallel to this
one?

11. Original line: $y = 8x + 4$

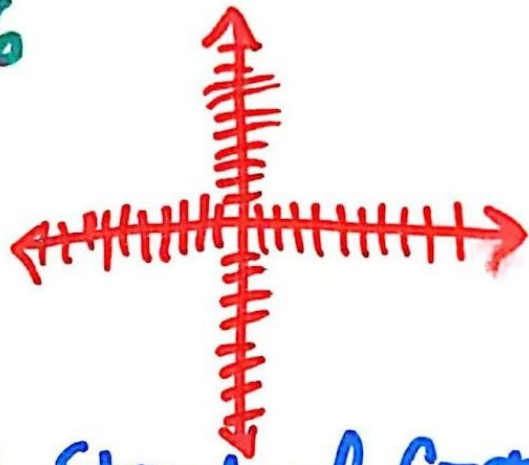
Perpendicular line: $y =$

Linear Functions: Practice Cont.

12. In the standard form of a line, a , b , and c are #s and a and $b \neq$.

13. $6x + 12y = 36$

graph:



14. transfer to standard form:

a. $y = -\frac{1}{2}x + 4$

b. ~~$y - 3 = \frac{1}{4}(x + 2)$~~ $y - 3 = \frac{1}{4}(x + 2)$

15. Write an equation in standard form using $(3, 6)$ and $(-5, 4)$:

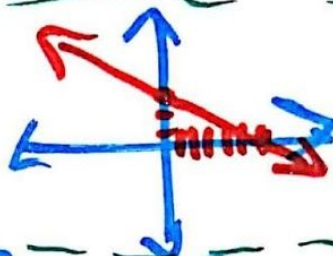
Linear Function: Practice answers

1. True

2. rise
run

12. real

13. $x=6$
 $y=3$



3. a. zero slope

b. positive

c. negative

d. undefined

14. a. $2y+x=8$

b. $-x+4y=14$

4. a. -2 b. $\frac{13}{5}$

15. $-x+4y=21$

5. a. $y=\frac{2}{5}x+\frac{4}{5}$

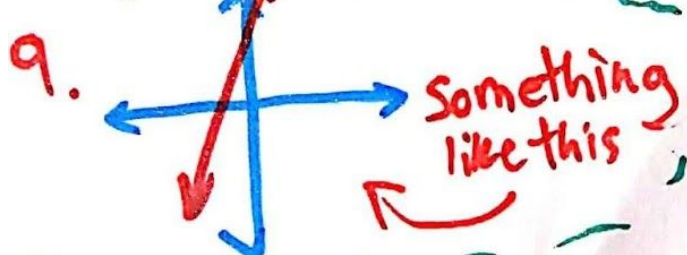
b. $y=\frac{4}{3}x-\frac{8}{3}$

6. $y=6x+4$

7. $y=-\frac{11}{3}x+13$

8. a. $y-1=\frac{3}{2}(x+5)$

b. $y+2=-3(x-4)$



10. $y=3x+4$

11. $y=-\frac{1}{8}x-1$