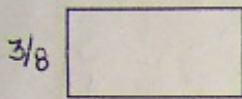


#4 State the parallel slope for each of the following equations.

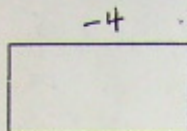
- a) $y = 2x + 5$ b) $y = 4 - 7x$ c) $y = 6x - 12$

#5 Fill in the missing information for the following rectangles.

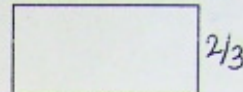
a)



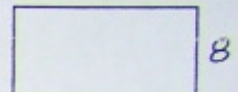
b)



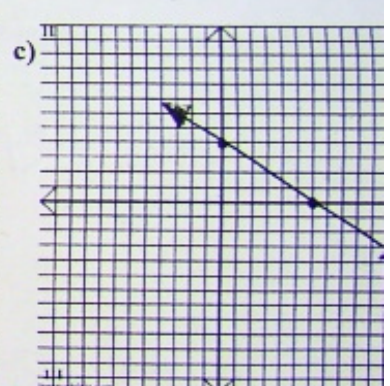
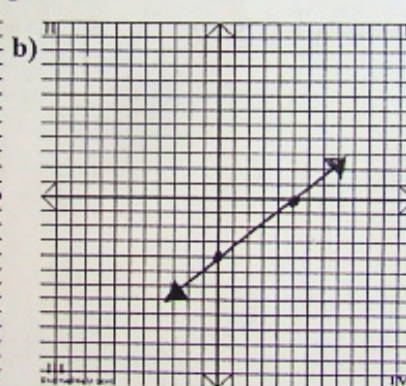
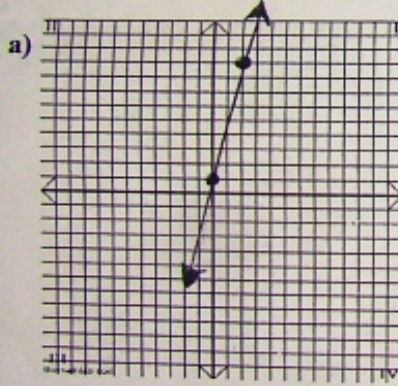
c)



d)



#6. Using Rise/Run, state the slope.



#7

- Calculate the slope of a line passing through $(2, -3)$ and $(5, 0)$.
- Calculate the parallel slope of a line passing through $(7, -6)$ and $(-4, -4)$.
- Calculate the perpendicular slope of a line passing through $(-4, 8)$ and $(-3, 0)$.
- What is the slope perpendicular to $y = 5x - 3$.
- What is the slope parallel to $y = \frac{2}{9} - 5x$.
- What is the slope perpendicular to $y = \frac{2}{9} - 5x$.

#7

- Calculate the slope of a line passing through $(2, -3)$ and $(5, 0)$.
- Calculate the parallel slope of a line passing through $(7, -6)$ and $(-4, -4)$.
- Calculate the perpendicular slope of a line passing through $(-4, 8)$ and $(-3, 0)$.
- What is the slope perpendicular to $y = 5x - 3$.
- What is the slope parallel to $y = \frac{2}{9} - 5x$.
- What is the slope perpendicular to $y = -7x + 3$.

#8 Thomas is building a wheelchair ramp outside a building. Its slope must be less than $\frac{1}{12}$. If the entrance of the building is 50 cm above ground level, what is the Minimum horizontal distance needed for the ramp?

#9 Andree is selling clothing for safe grad. The cost of the shirt is \$25.00 plus an additional \$1.50 for every letter sewn onto the shirt.

- Write the equation for the above situation.
- If Breanne wanted to buy a shirt with her name on it how much would it cost?
- If Taylor's shirt cost \$47.50, how many letters were sewn onto her shirt?

#10. a) A line passes through $(5, 3k)$ and $(4, 8)$ and is parallel to $y = -2x + 8$. Find k .