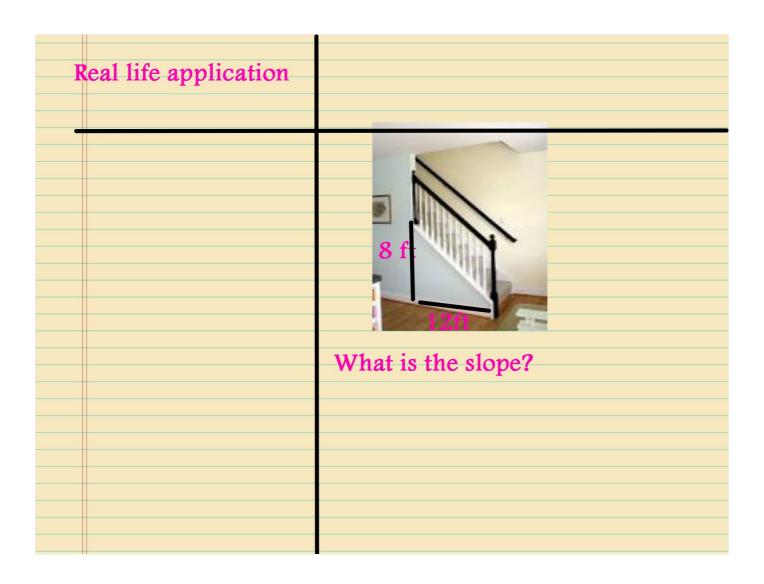
Write and solve for y:
, , , , , , , , , , , , , , , , , , ,
x + 0.5y = 1.5

4~2 Slope Vocabulary	Vocabulary meaning
Slope	Rate of change between any 2 points on a line
	To find the slope of a line, find the ratio of the change in y (vertical change) to the change in x (horizontal change). $slope = \frac{change in y}{change in x}$

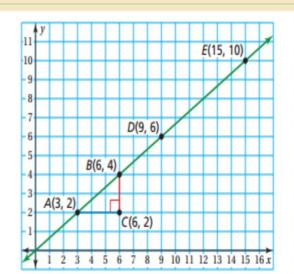
Positive Vs Negative Slope Positive Slope Negative Slope The line rises from left to right. The line falls from left to right.



Example 2 Finding slope Steps	Solve
	RISE*2 RISE/RUN*2/3 NEGATIVE SLOPE
	M*(-2/3)

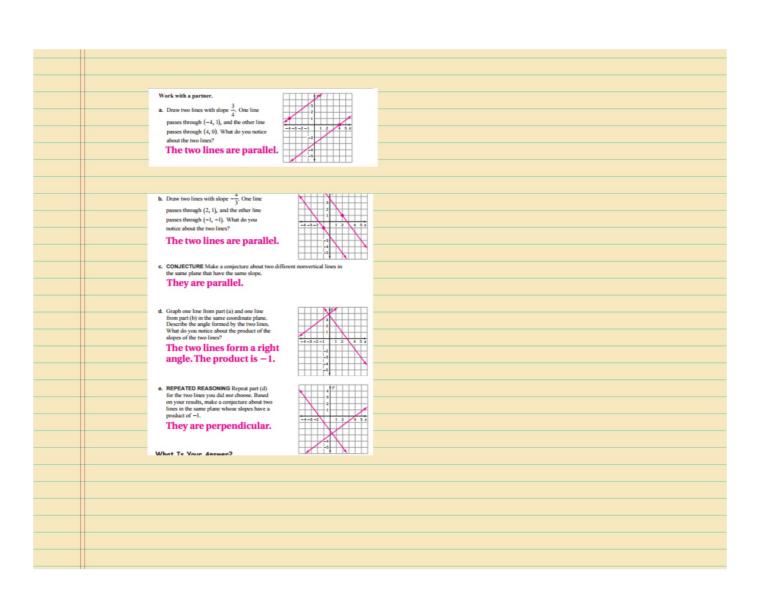
Work with a partner. Use the figure shown.

- a. $\triangle ABC$ is a right triangle formed by drawing a horizontal line segment from point A and a vertical line segment from point B. Use this method to draw another right triangle, $\triangle DEF$.
- **b.** What can you conclude about $\triangle ABC$ and $\triangle DEF$? Justify your conclusion.



- c. For each triangle, find the ratio of the length of the vertical side to the length of the horizontal side. What do these ratios represent?
- **d.** What can you conclude about the slope between any two points on the line?

2; the slope of the line between points A and B and between points D and E d. What can you conclude about the slope between any two points on the line? Sample answer: It is constant.	Work with a partner. Use the figure shown. a. \$\text{\$\Delta BC}\$ is a right triangle formed by drawing a horizontal line segment from point \$A\$ and a vertical line segment from point \$B\$. Use this method to draw another right triangle, \$\text{\$\Delta DEF}\$. b. What can you conclude about \$\text{\$\Delta BC}\$ and \$\text{\$\Delta DEF}\$? Justify your conclusion. They are similar. c. For each triangle, find the ratio of the length of the vertical side to the length of the horizontal side. What do these ratios represent?
	2; the slope of the line between points A and B and between points D and E d. What can you conclude about the slope between any two points on the line?



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