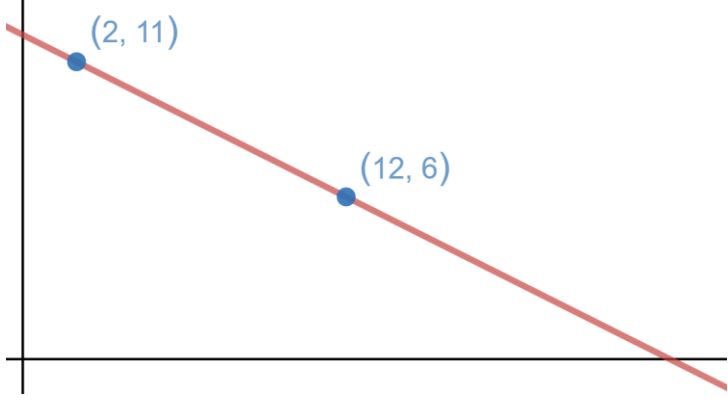
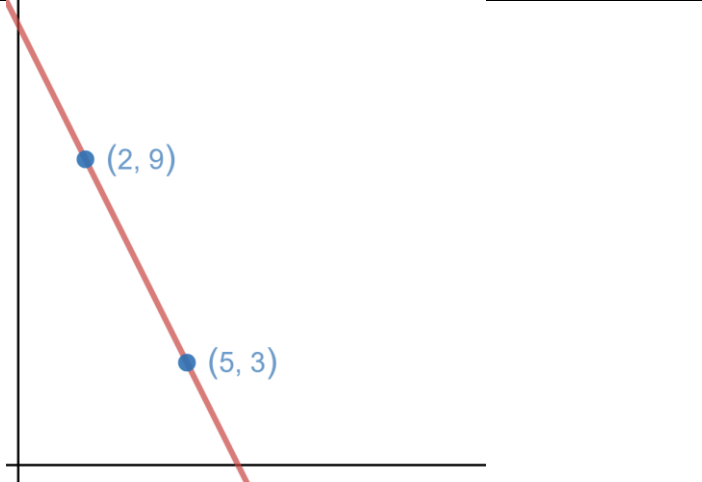
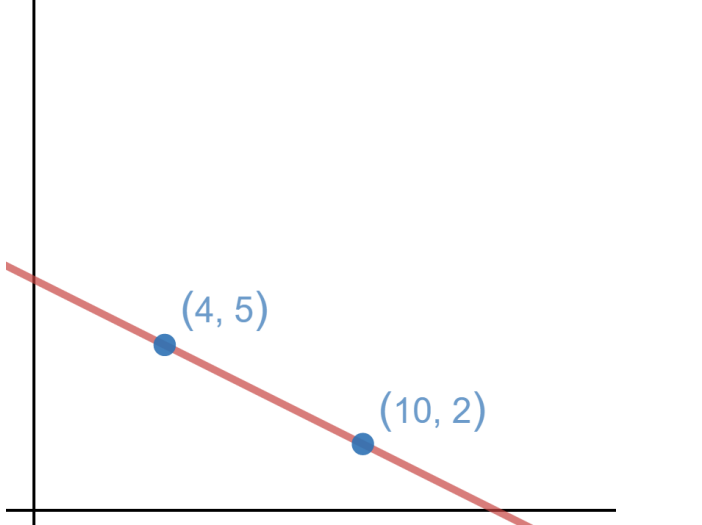


**GRAPHS**

	<p>a) Identify the slope =</p> <p>b) Identify the y-intercept =</p> <p>c) Find the equation of the line</p> <p>d) If the line passes through a point with a y-coordinate of <math>-3</math>, find the x-coordinate of this point.</p>
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	<p>a) Identify the slope =</p> <p>b) Identify the y-intercept =</p> <p>c) Find the equation of the line</p> <p>d) If the line passes through a point with a y-coordinate of <math>-8</math>, find the x-coordinate of this point.</p>
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	<p>a) Find slope and y-intercept</p> <p>b) Find the equation of the line</p> <p>c) If the line passes through a point with a y-coordinate of <math>-11</math>, find the corresponding x-coordinate</p>
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## WORD PROBLEMS

1. A taxicab charges a flat rate of \$3.50 for the first 4 miles plus \$1.50 for each additional mile driven.
  - a. Create a linear function,  $C(m)$ , of this situation.
  
  - b. If the cab has driven 17 miles, find how much the ride costs. Show your work.
  
  - c. If Todd pays \$26 for the ride, how many miles did the cab driver take Todd? Show your work.
  
2. Cindy earns \$520 for the first 40 hours worked and \$18 an hour for every hour after that.
  - a. Create a linear function,  $P(h)$ , to represent the amount Cindy is paid for working  $h$  hours this month.
  
  - b. If Cindy works a full 40 hour week, and assuming the month contains exactly 4 weeks, how much will Cindy get paid this month? Use the linear function created in part (a) to answer this question.
  
  - c. If Cindy was paid \$2,410 this month, how many hours did she work in total? Use the linear function in part (a).
  
3. A Bonsai tree is 3.5 inches when Fred first purchased it. It then grew an average of 0.75 inches per month.
  - a. Create a linear function,  $B(m)$ , to represent the height of the Bonsai tree after  $m$  months.
  
  - b. How many months will it take for the Bonsai tree to be 15.5 inches? Use your function from part (a)
  
  - c. How tall will the Bonsai tree be after 4 years, assuming the tree continues to grow at a constant rate.