

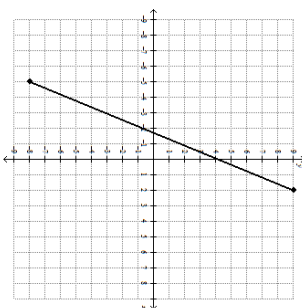
Which set of line segments could create a right triangle?

- a. 9, 15, 12
- b. 9, 15, 9
- c. 9, 17, 12
- d. 9, 12, 18

Which set of line segments could create a right triangle?

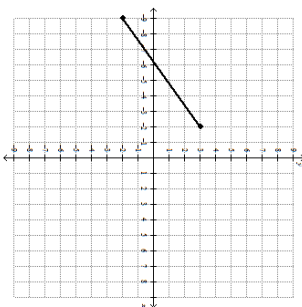
- a. 12, 37, 33
- b. 12, 35, 37
- c. 12, 35, 40
- d. 12, 32, 37

What is the distance from  $(-5, -8)$  to  $(2, 9)$  on a graph? Round your answer to the nearest tenth if necessary.



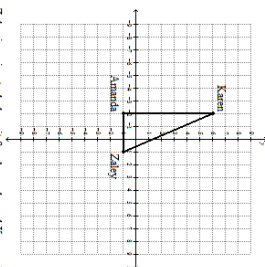
- a. 17.4 units
- b. 18.4 units
- c. 19.9 units
- d. 17.9 units

What is the distance from  $(-2, 3)$  to  $(-9, -2)$  on a graph? Round your answer to the nearest tenth if necessary.



- a. 8.6 units
- b. 9.1 units
- c. 10.1 units
- d. 7.6 units

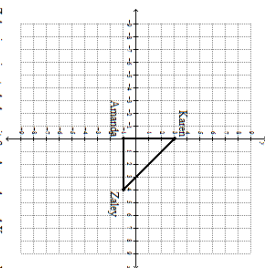
The graph shows the locations of Karen's, Amanda's, and Zaley's houses on a coordinate plane. Each unit on the graph represents 1 block.



Zaley is going to baby-sit for Amanda and Karen. How many total blocks will she travel if she goes to Amanda's house, then to Karen's, and finally back home following the paths on the graph? Round your answer to the nearest whole block.

- a. 21 blocks
- b. 19 blocks
- c. 16 blocks
- d. 18 blocks

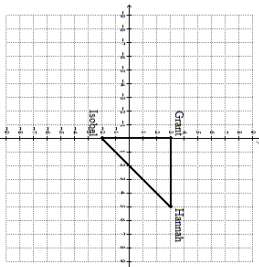
The graph shows the locations of Karen's, Amanda's, and Zaley's houses on a coordinate plane. Each unit on the graph represents 1 block.



Zaley is going to baby-sit for Amanda and Karen. How many total blocks will she travel if she goes to Amanda's house, then to Karen's, and finally back home following the paths on the graph? Round your answer to the nearest whole block.

- a. 12 blocks
- b. 17 blocks
- c. 14 blocks
- d. 15 blocks

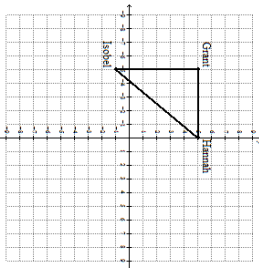
The graph shows the locations of Grant's, Hannah's, and Isobel's houses. Each unit on the graph represents 1 block.



If Grant walks from his house to Isobel's house, then on to Hannah's house along the path shown, how far will he have walked in blocks? Round your answer to the nearest tenth if necessary.

- a. 14.1 blocks
- b. 13.1 blocks
- c. 12.1 blocks
- d. 15.1 blocks

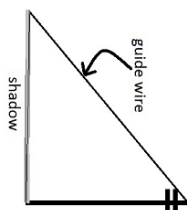
The graph shows the locations of Grant's, Hannah's, and Isobel's houses. Each unit on the graph represents 1 block.



If Grant walks from his house to Isobel's house, then on to Hannah's house along the path shown, how far will he have walked in blocks? Round your answer to the nearest tenth if necessary.

- a. 12.8 blocks
- b. 10.8 blocks
- c. 15.8 blocks
- d. 13.8 blocks

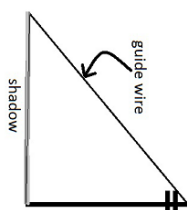
The picture below shows a pole and its shadow and it may not be drawn to scale.



If the shadow is 30 inches and the guide wire is 34 inches, what is the height of the pole in inches?

- a. 13 inches
- b. 18 inches
- c. 16 inches
- d. 17 inches

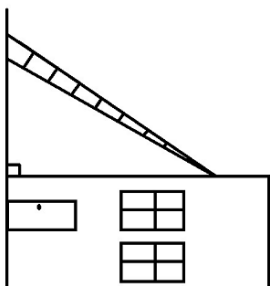
The picture below shows a pole and its shadow and it may not be drawn to scale.



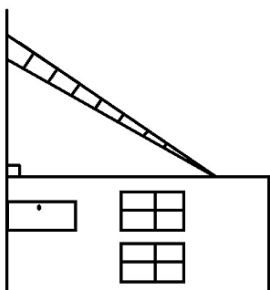
If the shadow is 12 inches and the guide wire is 15 inches, what is the height of the pole in inches?

- a. 11 inches
- b. 8 inches
- c. 12 inches
- d. 9 inches

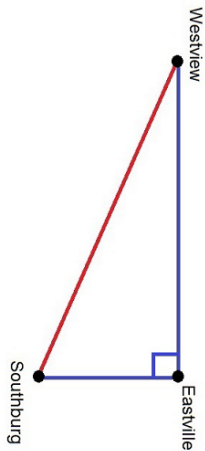
You have leaned a 27-foot ladder against a building as shown below. If the base of the ladder is 135 inches away from the building, how far up the building is the top of the ladder? Express your answer to the nearest inch.



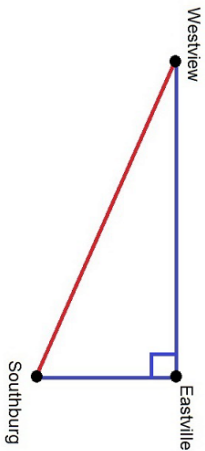
You have leaned a 20-foot ladder against a building as shown below. If the base of the ladder is 140 inches away from the building, how far up the building is the top of the ladder? Express your answer to the nearest inch.



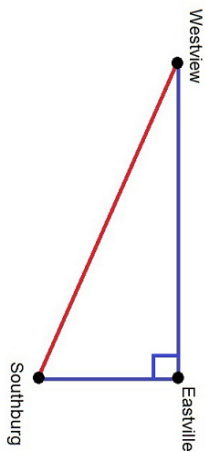
You are planning a trip to Southburg from Westview. If the distance from Westview to Eastville is 84 miles, and the distance from Eastville to Southburg is 53 miles, how far is it from Southburg to Westview to the nearest tenth of a mile?



You are planning a trip to Southburg from Eastville. If the distance from Westview to Eastville is 83 miles, and the distance from Westview to Southburg is 95 miles, how far is it from Southburg to Eastville to the nearest tenth of a mile?



You are planning a trip to Southburg from Westview. If the distance from Westview to Eastville is 189 miles, and the distance from Eastville to Southburg is 109 miles, how far is it from Southburg to Westview to the nearest tenth of a mile?



You are planning a trip to Southburg from Eastville. If the distance from Westview to Eastville is 91 miles, and the distance from Westview to Southburg is 102 miles, how far is it from Southburg to Eastville to the nearest tenth of a mile?

