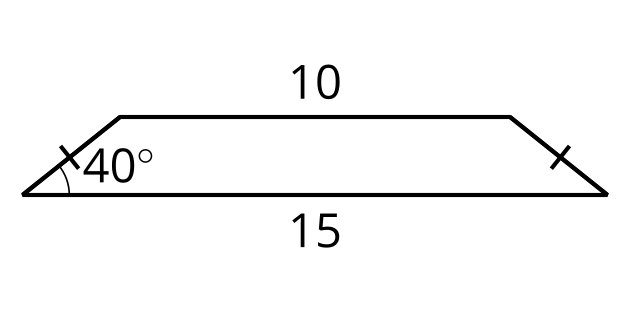
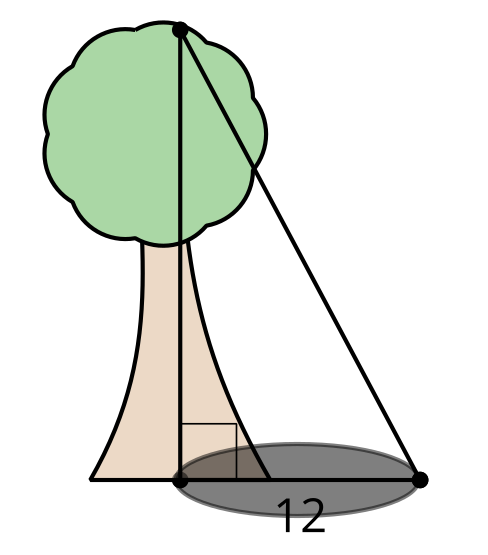
### Lesson 10 Practice Problems

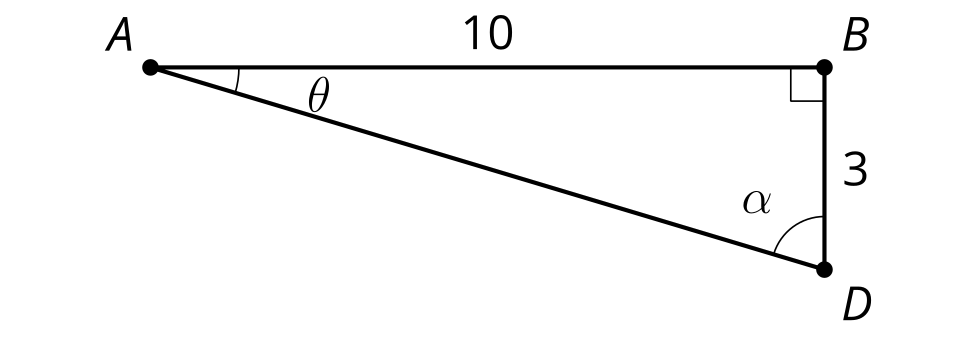
1. *Technology required.*Find the area of the isosceles trapezoid.

* 

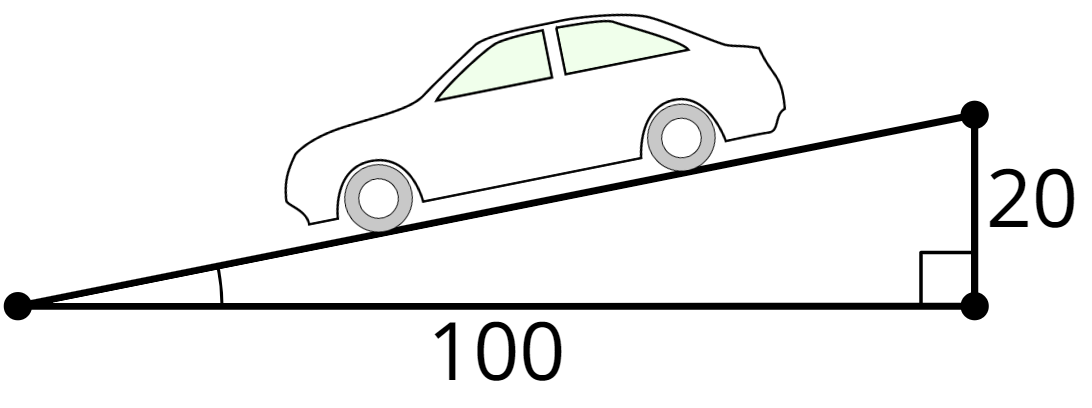
1. *Technology required.*The sun is 62 degrees above the horizon. A tree casts a shadow that is 12 feet long. How tall is the tree?

* 

1. *Technology required.*A plane leaves the ground with an elevation angle of 6 degrees. The plane travels 10 miles horizontally.
   1. How high is the plane at the time?
   2. What is the distance of the plane’s path?
2. *Technology required.*Find the missing measurements.

* 
* (From Unit 4, Lesson 9.)

1. *Technology required.*Ramps in a parking garage need to be both steep and safe. The maximum safe incline for a ramp is 8.5 degrees.

* Is this a safe ramp? Explain or show your reasoning.
* 
* (From Unit 4, Lesson 9.)

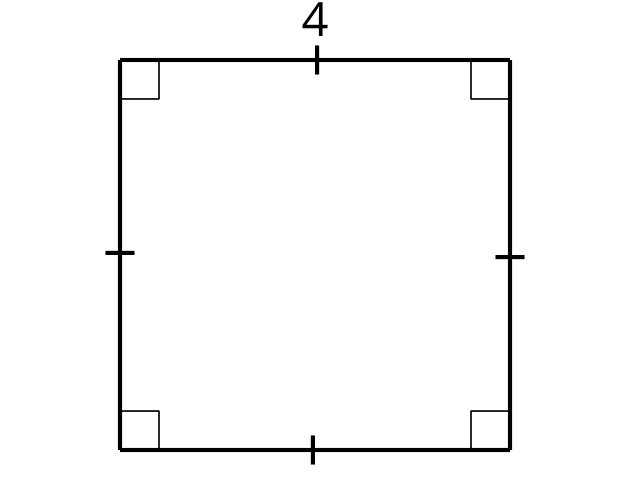
1. Select **all** true equations.

* (From Unit 4, Lesson 8.)

1. *Technology required.*Clare is flying a kite. She gets tired, so she stakes the kite into the ground. The kite is on a string that is 30 ft long and makes a 27 degree angle with the ground. How high is the kite?
   1. 30 ft
   2. 13.6 ft
   3. 26.7 ft
   4. 15.3 ft

* (From Unit 4, Lesson 7.)

1. What is the length of the diagonal?

* 
* (From Unit 4, Lesson 2.)



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