

- $\triangle JET$ is a right triangle with hypotenuse $t = 18.6$ in and $j = 8.6$ in. Draw a picture and solve the triangle.
- $\triangle ANT$ is a right triangle with $A = 47^\circ$ and hypotenuse $n = 42$ ft. Draw a picture and solve the triangle.

Simplify.

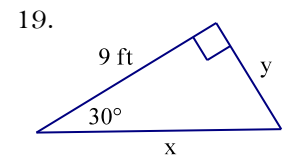
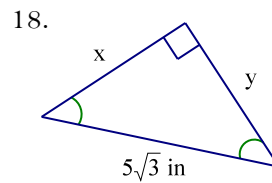
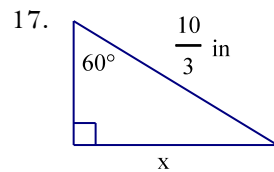
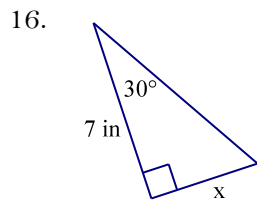
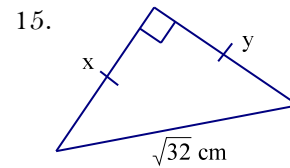
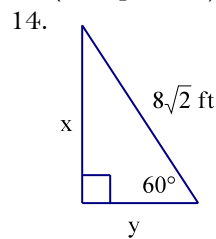
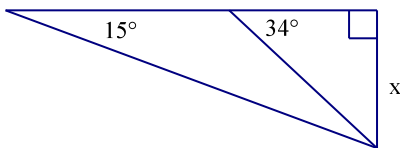
- $\sqrt{\frac{8}{10}} \cdot \sqrt{\frac{3}{5}}$
- $\frac{4\sqrt{60}}{\sqrt{30}}$
- $\frac{8}{\sqrt{6}}$
- $\frac{5}{\sqrt{7}}$
- $\frac{\sqrt{3}}{\sqrt{2}}$
- $\frac{30}{\sqrt{18}}$

Solve the triangle.

- $a = 6$ m, $b = 15$ m, $c = 11$ m
- $A = 28^\circ$, $a = 15$ ft, $b = 9$ ft
- $C = 31^\circ$, $a = 9$ yd, $b = 6$ yd
- $A = 12^\circ$, $B = 26^\circ$, $c = 35$ mi

Solve for the missing value(s). Exact answers!! (except #13)

13. _____ 170 m _____



- A surveying crew is given the job of measuring the depth of a canyon. From a point on level ground, the angle of depression to the bottom of the canyon is 32° . If the crew backs up 207 ft, they still have a clear view of the bottom, but the angle of depression has changed to 14° . What is the depth of the canyon?
- How tall is a building if a 6-foot-tall person standing 1000 ft away can see the top of the building at an angle of 30° to the horizon?