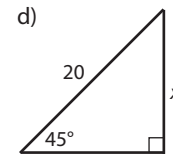
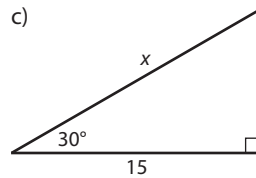
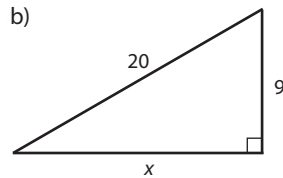
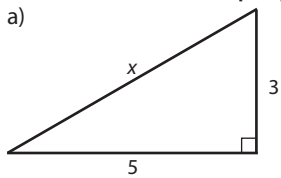


3-A Special Right Triangles1. Solve for x . Simplify answers, and then round answers to the nearest hundredth.**3-B Trigonometric Functions in Right Triangles**

2. State the value of each of the following trig functions for the triangle at right.

a) $\sin A$

b) $\cos A$

c) $\sin B$

d) $\tan B$

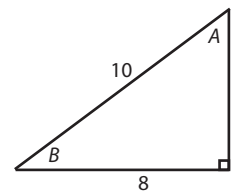
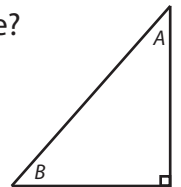
3. Evaluate.

a) $\sin 30^\circ$

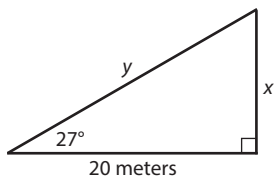
b) $\cos 40^\circ$

c) $\sin 50^\circ$

d) $\cos 60^\circ$

4. The sine of $\angle A$ in the triangle at right is $\frac{3}{4}$. What does this mean about the sides of the triangle?

5. Solve. Round answers to the nearest tenth of a meter.

a) Find the lengths of x and y .b) Find the height of a tree casting a 6-meter shadow when the sun is 16° above the horizon.**3-C Inverse Trigonometric Functions in Right Triangles**

6. State the value of each of the following functions for the triangle at right, or write "n/a".

a) $\sin A$

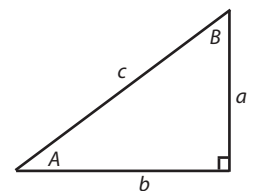
b) $\sin^{-1} \frac{b}{c}$

c) $\sin^{-1} \frac{c}{a}$

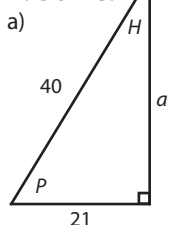
d) $\sin^{-1} B$

e) $\cos^{-1} \frac{b}{c}$

f) $\tan^{-1} \frac{b}{a}$



7. Solve.



b) Find the slope of a 90-meter driveway that rises 5.5 meters.