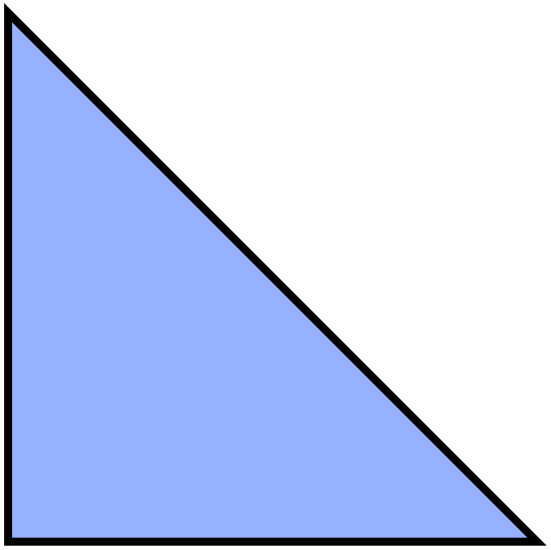
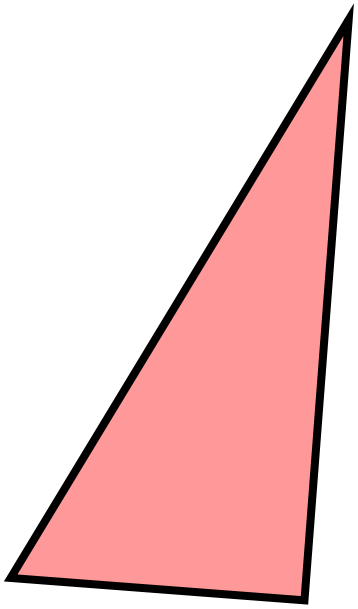
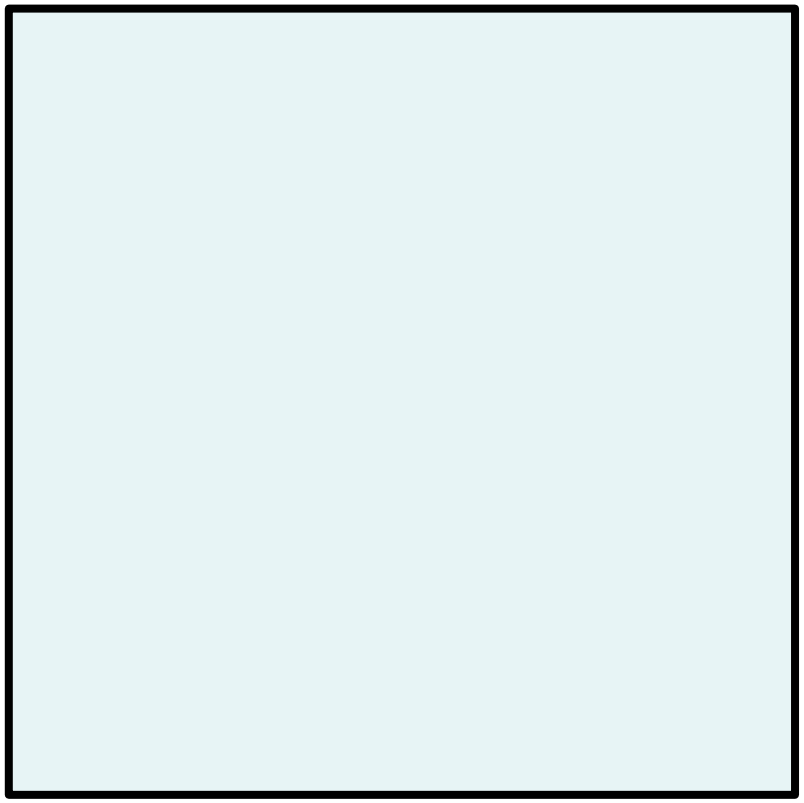
45°-45°-90° Triangle Theorem



30°-60°-90° Triangle Theorem



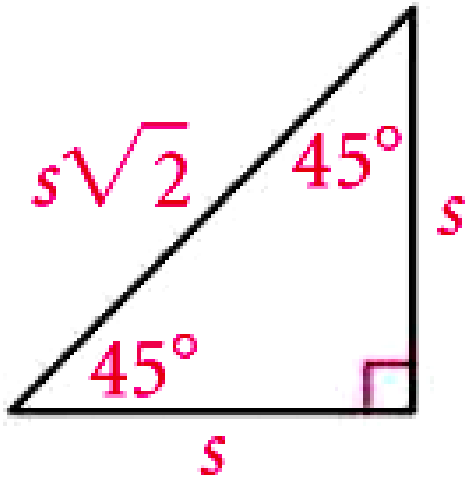
45°	0.7071	0.7071	1.0000
30°	0.5000	0.8660	0.5774



45°	0.7071	0.7071	1.0000

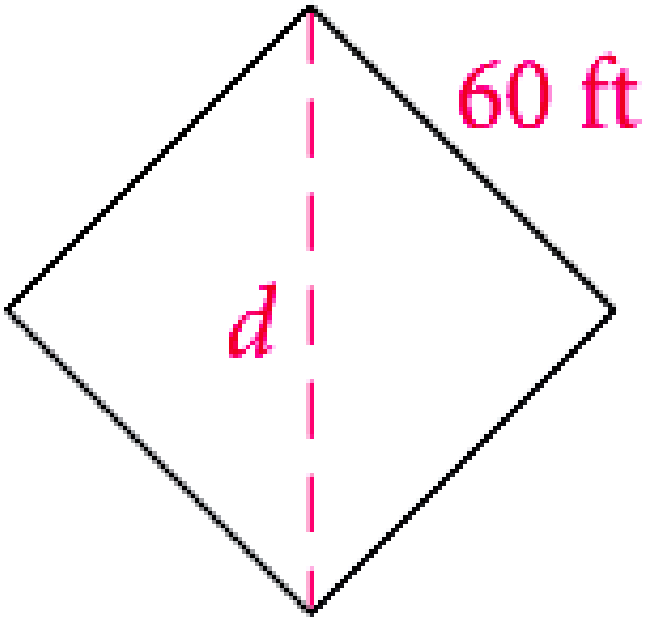
45°-45°-90° Triangle Theorem

$$\text{hypotenuse} = \sqrt{2} \cdot \text{leg}$$



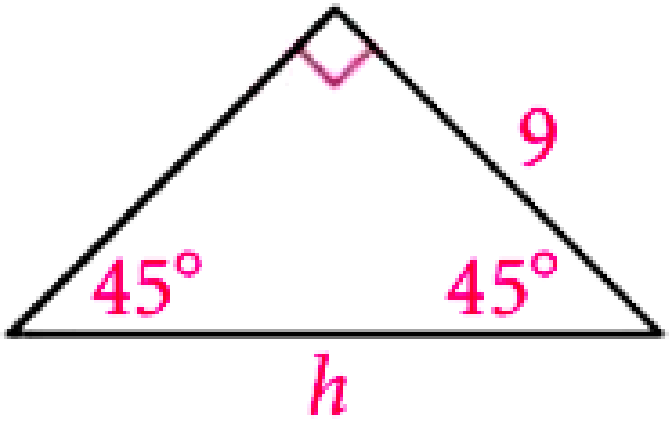
Softball A high school softball diamond is a square. The distance from base to base is 60 ft.

To the nearest foot, how far does a catcher throw the ball from home plate to second base?



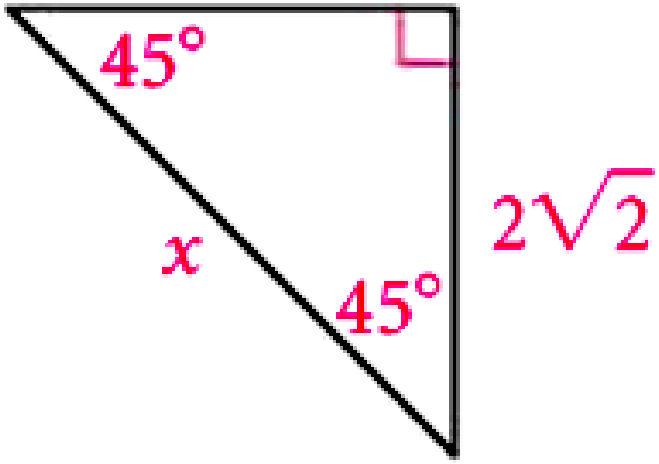
45°-45°-90° Triangle Theorem

Find the value of each variable.



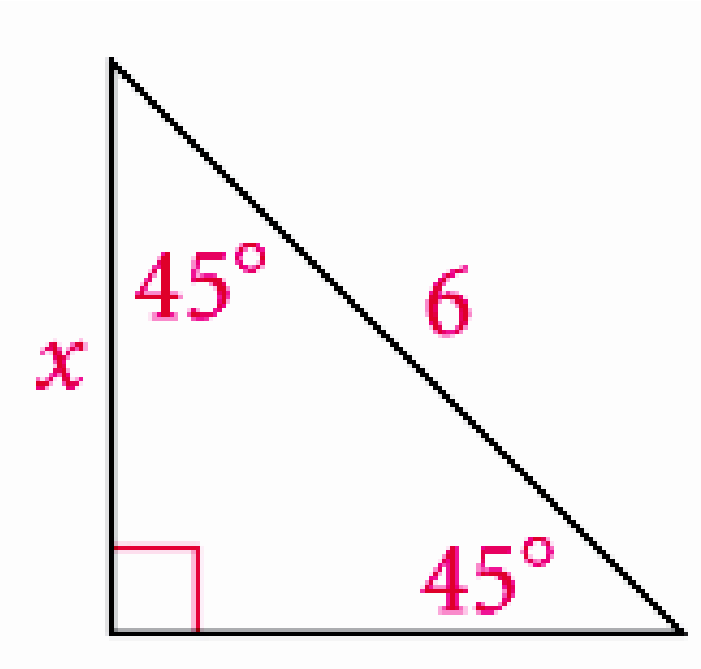
45°-45°-90° Triangle Theorem

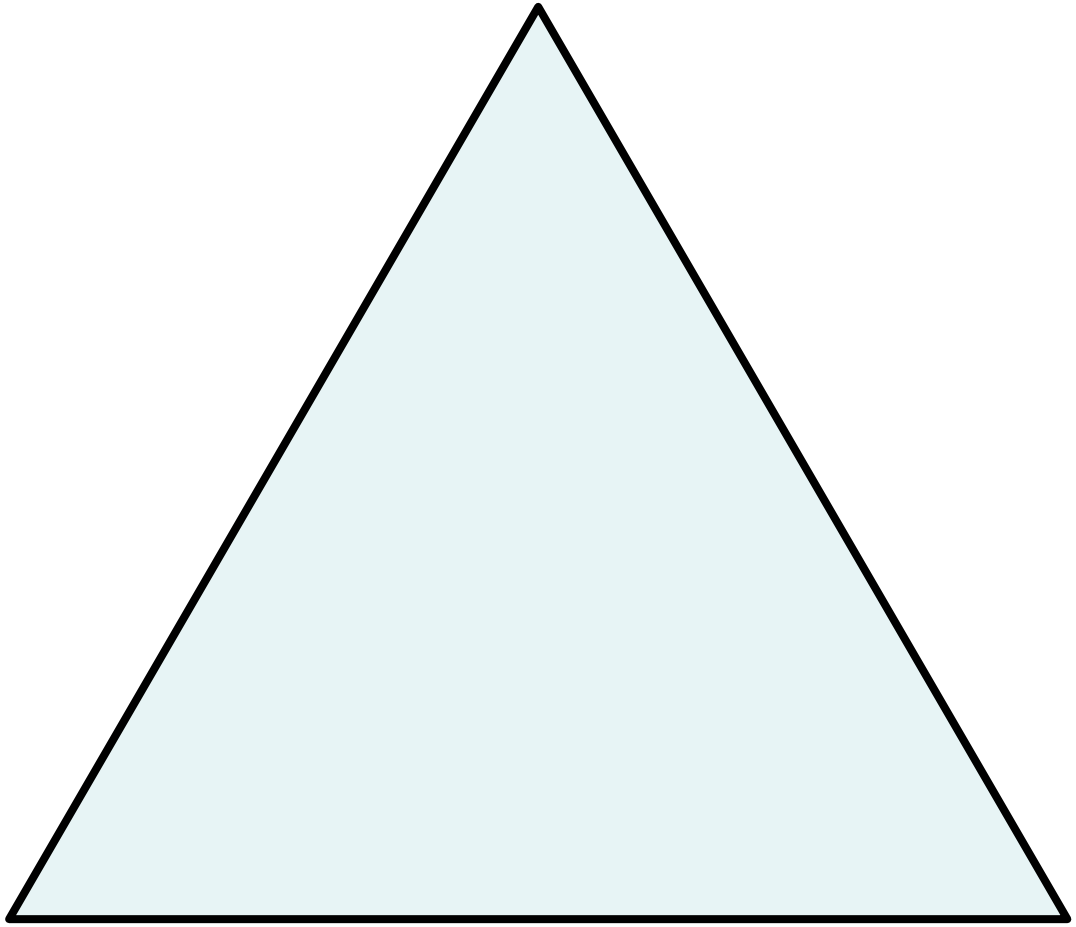
Find the value of each variable.



Multiple Choice What is the value of x?

(A) 3 (B) $3\sqrt{2}$ (C) 6 (D) $6\sqrt{2}$



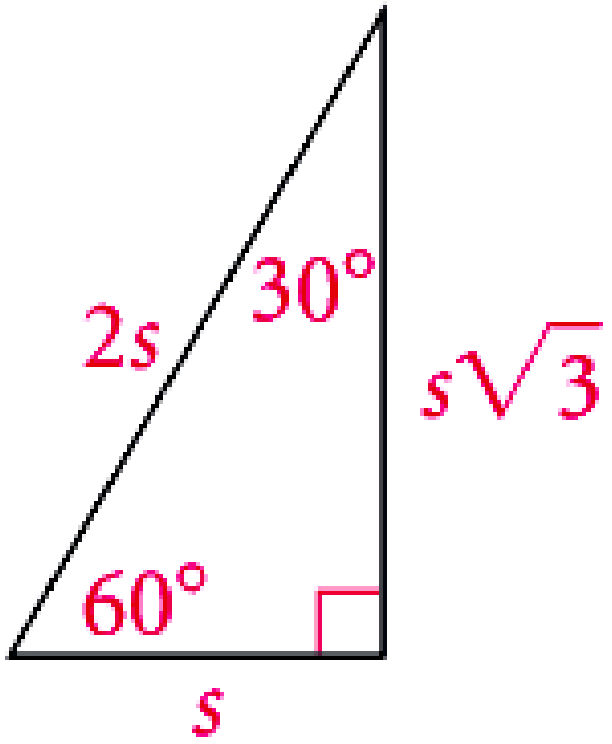


30°	0.5000	0.8660	0.5774

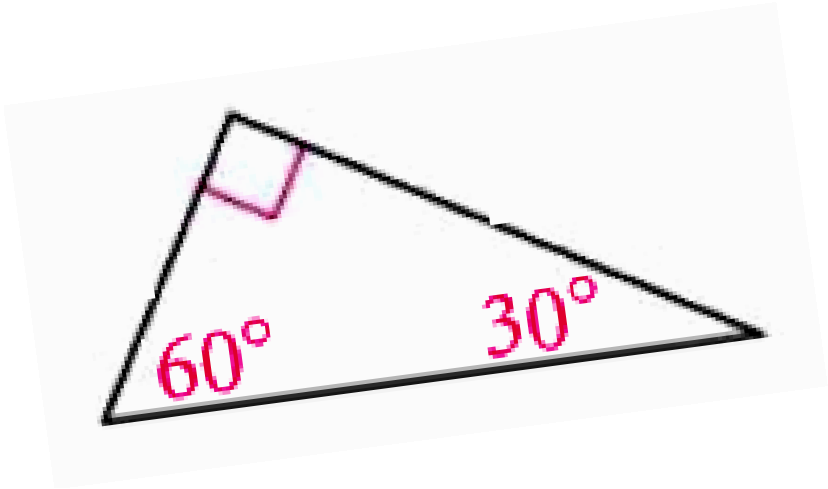
30°-60°-90° Triangle Theorem

hypotenuse $= 2 \cdot$ shorter leg

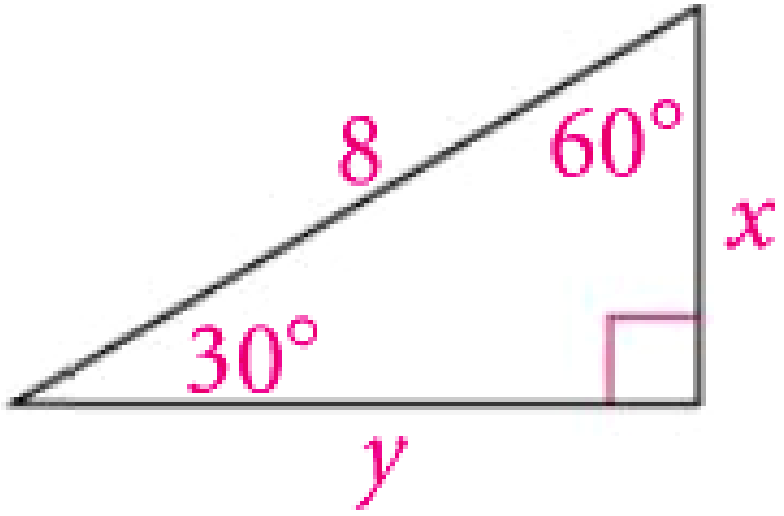
longer leg $= \sqrt{3} \cdot$ shorter leg



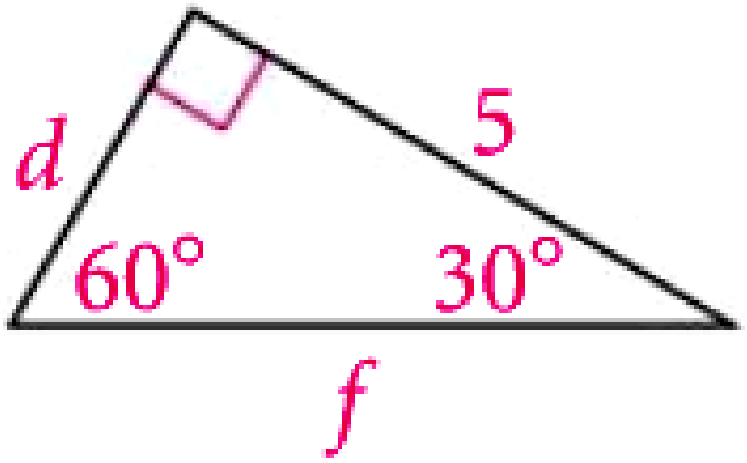
30°-60°-90° Triangle Theorem



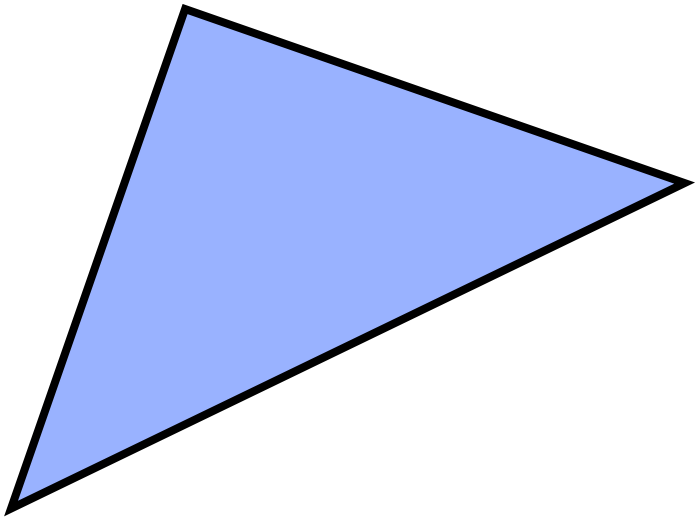
Using the Length of One Side



Using the Length of One Side



45°-45°-90° Triangle Theorem



30°-60°-90° Triangle Theorem