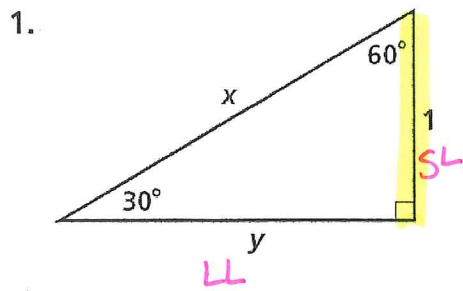


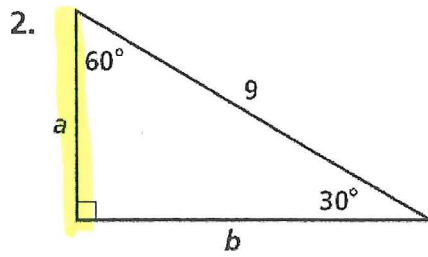
Practice 8-3

Special Right Triangles

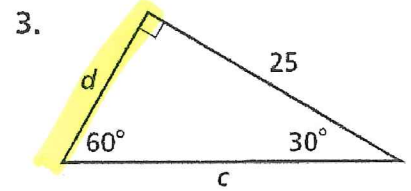
Find the value of each variable. Leave your answers in simplest radical form.



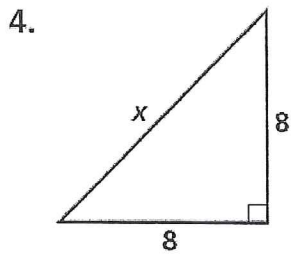
$x = 2$ $y = \sqrt{3}$



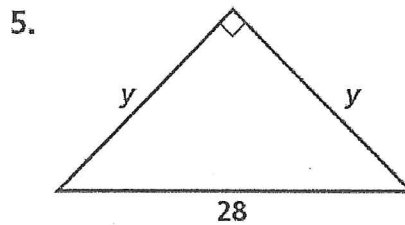
$a = \frac{9}{2}$ $b = \frac{9}{2}\sqrt{3}$



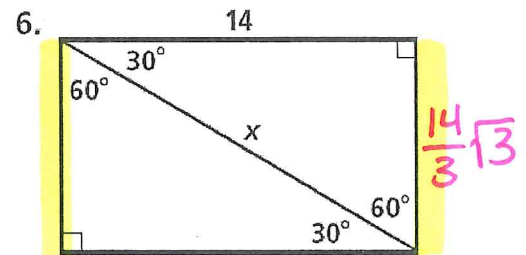
$c = \frac{50}{3}\sqrt{3}$ $d = \frac{25}{3}\sqrt{3}$



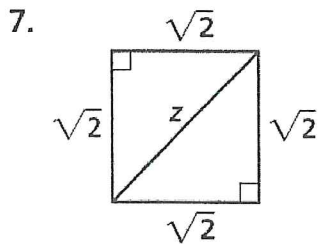
$x = 8\sqrt{2}$



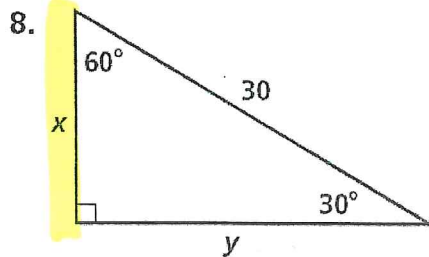
$y = 14\sqrt{2}$



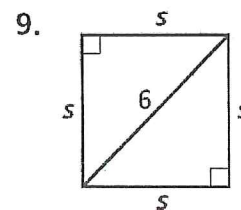
$x = \frac{28}{3}\sqrt{3}$



$z = 2$

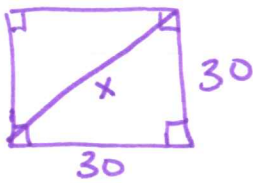


$x = 15$ $y = 15\sqrt{3}$



$s = 3\sqrt{2}$

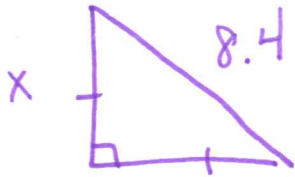
10. Find the length to the nearest centimeter of the diagonal of a square with 30 cm on a side.



It's a 45-45-90 Δ

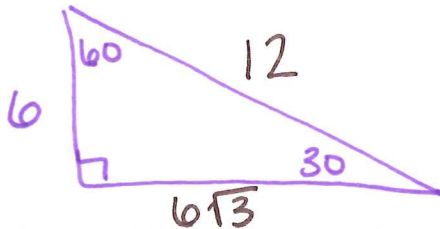
$$x = 30\sqrt{2}$$

11. The hypotenuse of an isosceles right triangle is 8.4 in. find the length of a side to the nearest tenth.

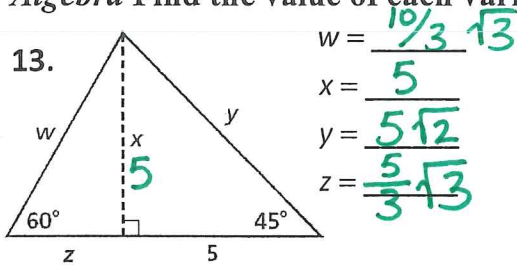


$$x = 4.2\sqrt{2}$$

12. In a 30°-60°-90° triangle, the shorter leg is 6 ft long. Find the length of the other two sides to the nearest tenth.



Algebra Find the value of each variable. Leave your answers in simplest radical form.

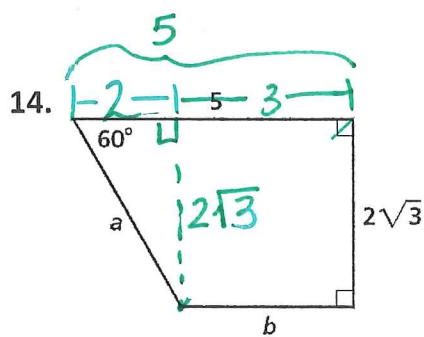


$$w = \frac{10\sqrt{3}}{3}$$

$$x = 5$$

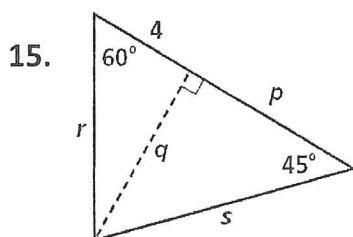
$$y = \frac{5\sqrt{2}}{3}$$

$$z = \frac{5\sqrt{3}}{3}$$



$$a = 4$$

$$b = 3$$



$$p = 4\sqrt{3}$$

$$q = 4\sqrt{3}$$

$$r = 8$$

$$s = 4\sqrt{6}$$