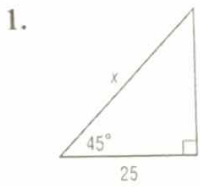


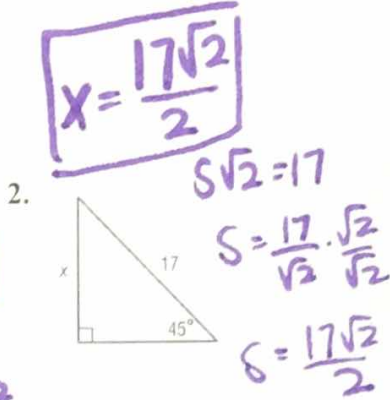
8-3 Skills Practice

Special Right Triangles

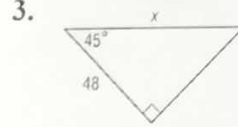
Find x .



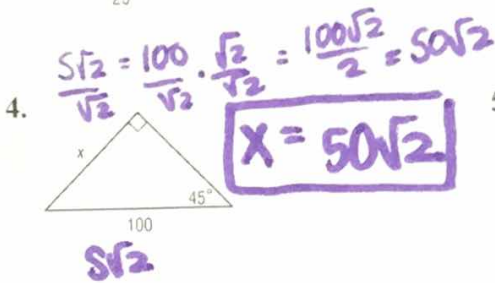
$x = 25\sqrt{2}$



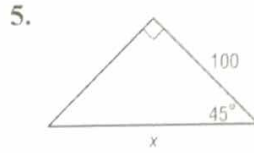
$x = \frac{17\sqrt{2}}{2}$



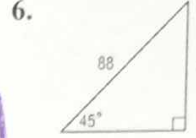
$x = 48\sqrt{2}$



$x = 50\sqrt{2}$



$x = 100\sqrt{2}$



$88 = \frac{S\sqrt{2}}{\sqrt{2}}$
 $S = \frac{88 \cdot \sqrt{2}}{\sqrt{2}} = \frac{88\sqrt{2}}{2}$

$x = 44\sqrt{2}$

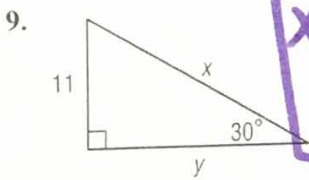
7. Determine the length of the leg of $45^\circ-45^\circ-90^\circ$ triangle with a hypotenuse length of 26.

$\frac{26}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{26\sqrt{2}}{2} = 13\sqrt{2}$

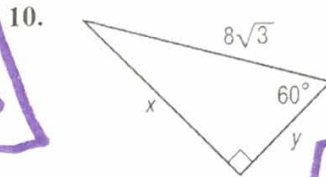
8. Find the length of the hypotenuse of a $45^\circ-45^\circ-90^\circ$ triangle with a leg length of 50 centimeters.

$50\sqrt{2}$

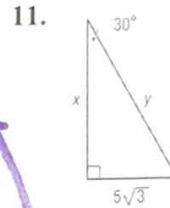
Find x and y .



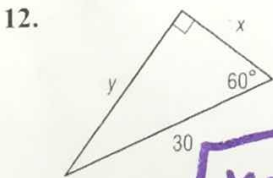
$x = 22$
 $y = 11\sqrt{3}$



$x = 12$
 $y = 4\sqrt{3}$



$x = 15$
 $y = 10\sqrt{3}$

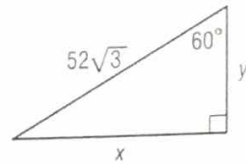


$x = 15$
 $y = 15\sqrt{3}$



$S\sqrt{3} = 21\sqrt{3} \cdot \sqrt{3}$
 $21 \cdot 3 = 63$

$x = 42\sqrt{3}$
 $y = 63$

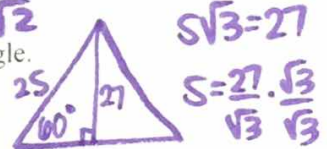


$\frac{52\sqrt{3}}{\sqrt{2}} = \frac{S\sqrt{2}}{\sqrt{2}}$

$y = 26\sqrt{3}$
 $x = 78$

15. An equilateral triangle has an altitude length of 27 feet. Determine the length of a side of the triangle.

$side = 18\sqrt{3}$



16. Find the length of the side of an equilateral triangle that has an altitude length of $11\sqrt{3}$ feet.

$side = 22$

