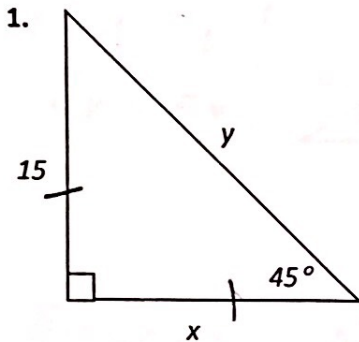


Unit 5 Day 2 Homework – Special Right Triangles

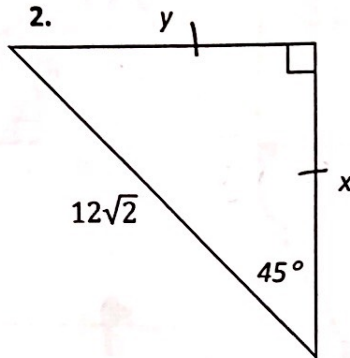
Name: _____

Solve for the missing sides in each of the given triangles using the relationships for special right triangles. Leave all answers as simplified radicals.



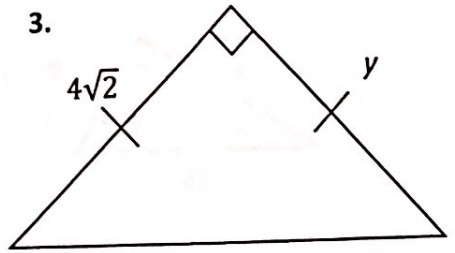
$x = 15$

$y = 15\sqrt{2}$



$x = 12$

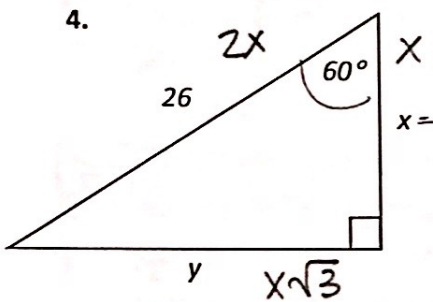
$y = 12$



$x = (4\sqrt{2})\sqrt{2}$
 $= 4\sqrt{4}$
 $= 4(2)$
 $= 8$

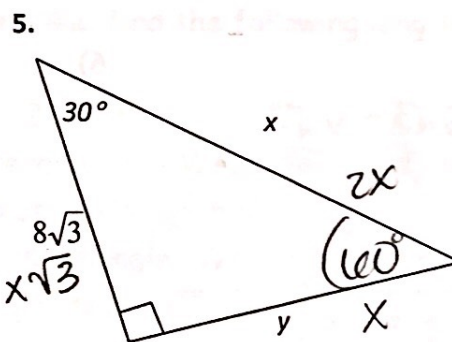
$x = 8$

$y = 4\sqrt{2}$



$x = 13$

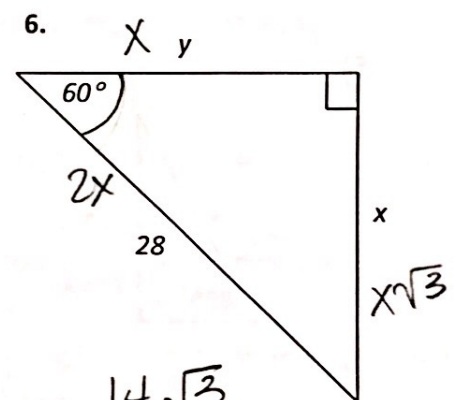
$y = 13\sqrt{3}$



$x = 16$

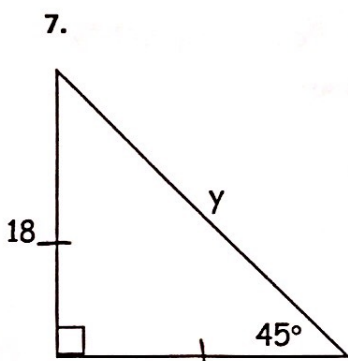
$y = 8$

$x\sqrt{3} = 8\sqrt{3}$
 $x = 8$



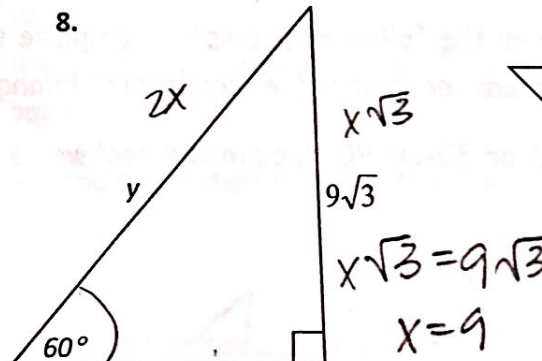
$x = 14\sqrt{3}$

$y = 14$



$x = 18$

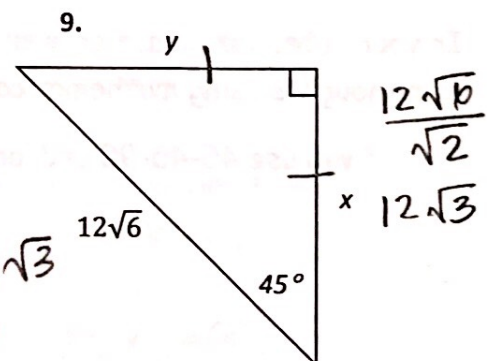
$y = 18\sqrt{2}$



$x = 9$

$y = 18$

$x\sqrt{3} = 9\sqrt{3}$
 $x = 9$



$x = 12\sqrt{3}$

$y = 12\sqrt{3}$

$\frac{12\sqrt{6}}{\sqrt{2}}$
 $= 12\sqrt{3}$