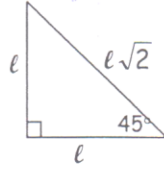
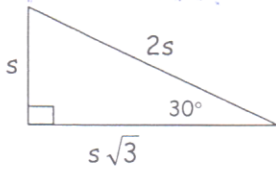


# 8-3 Special Right Triangles Homework

Name Master E

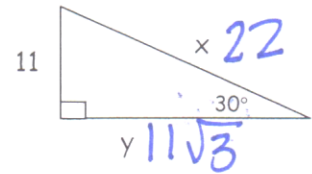
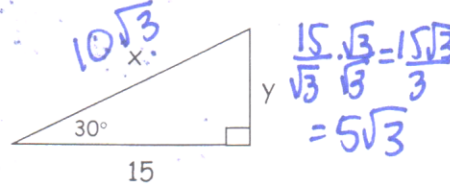
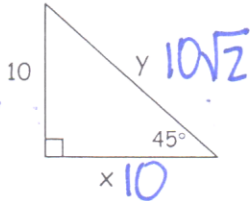
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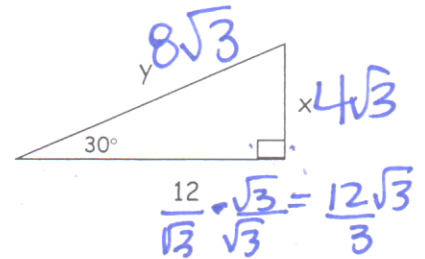
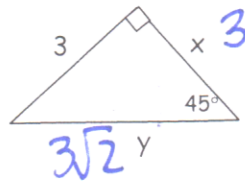
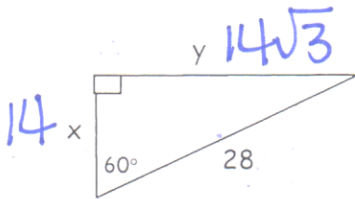
You must know these formulas!

Find the value of x and y in each triangle given. Leave all answers in simplified radical form.

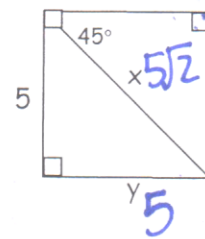
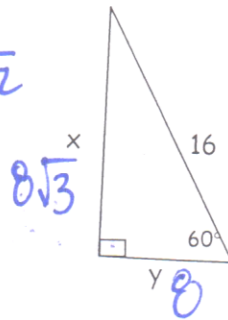
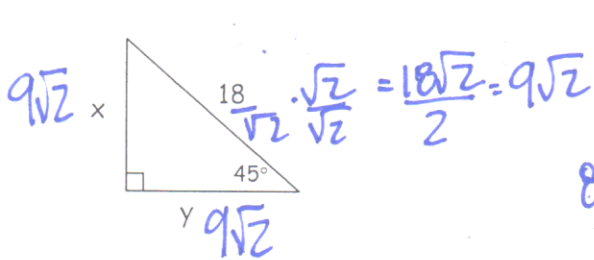
1.  $x = 10$   $y = 10\sqrt{2}$     2.  $x = 10\sqrt{3}$   $y = 5\sqrt{3}$     3.  $x = 22$   $y = 11\sqrt{3}$



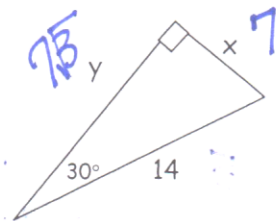
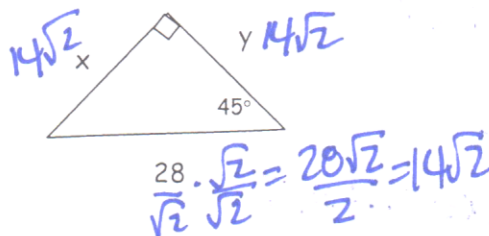
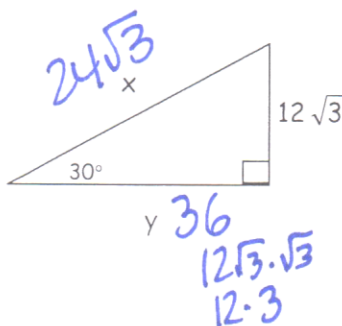
4.  $x = 14$   $y = 14\sqrt{3}$     5.  $x = 3$   $y = 3\sqrt{2}$     6.  $x = 4\sqrt{3}$   $y = 8\sqrt{3}$



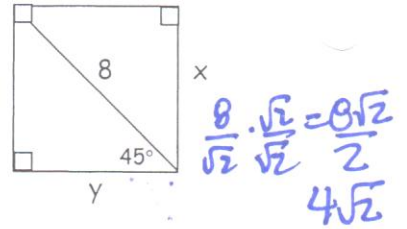
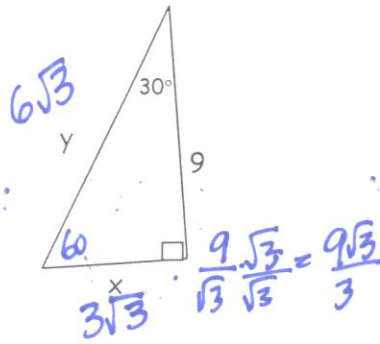
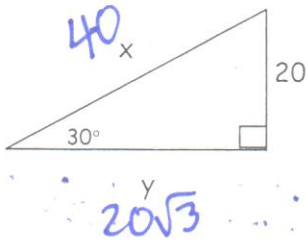
7.  $x = 9\sqrt{2}$   $y = 9\sqrt{2}$     8.  $x = 8\sqrt{3}$   $y = 8$     9.  $x = 5\sqrt{2}$   $y = 5$



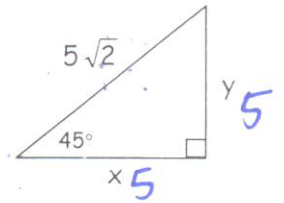
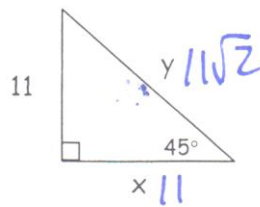
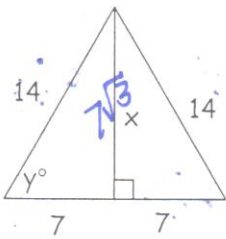
10.  $x = 24\sqrt{3}$   $y = 36$     11.  $x = 14\sqrt{2}$   $y = 14\sqrt{2}$     12.  $x = 7$   $y = 7\sqrt{3}$



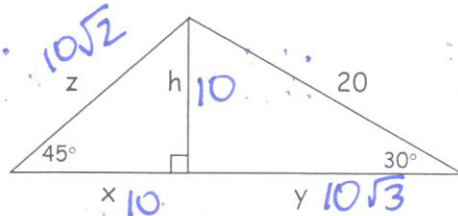
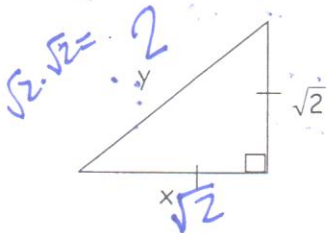
13.  $x = 40$   $y = 20\sqrt{3}$     14.  $x = 3\sqrt{3}$   $y = 6\sqrt{3}$     15.  $x = 4\sqrt{2}$   $y = 4\sqrt{2}$



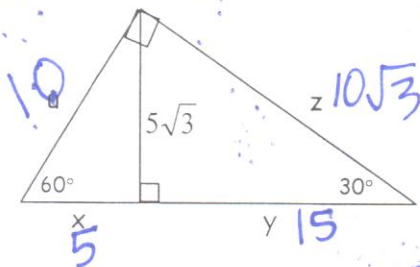
16.  $x = 7\sqrt{3}$   $y = 60$     17.  $x = 11$   $y = 11\sqrt{2}$     18.  $x = 5$   $y = 5$



19.  $x = \sqrt{2}$   $y = 2$     20.  $x = 10$   $y = 10\sqrt{3}$   $z = 10\sqrt{2}$   $h = 10$



21.  $x = 5$   $y = 15$   $u = 10$   $z = 10\sqrt{3}$



$5\sqrt{3} \cdot \sqrt{3} = 5 \cdot 3 = 15$