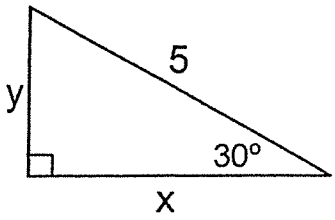
Algebra 2 Bellwork Thursday, March 5, 2015

Find the exact value of each missing side in each special right triangle. Rationalize denominators.

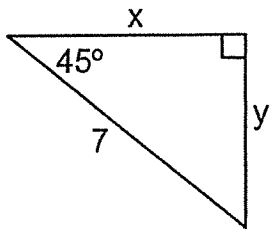
1.



x =

y =

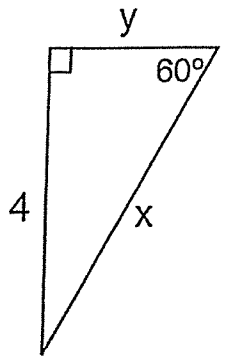
2.



x =

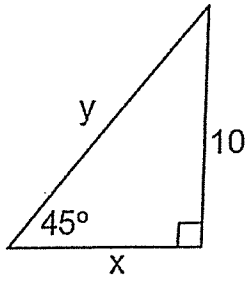
y =

3.



x = y =

4.



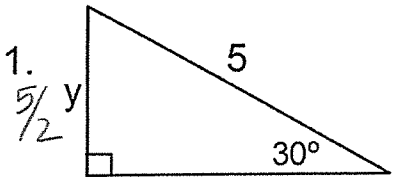
x =

y =

Algebra 2 Bellwork Thursday, March 5, 2015 ANSWERS

Find the exact value of each missing side in each special right triangle. Rationalize denominators.

1.

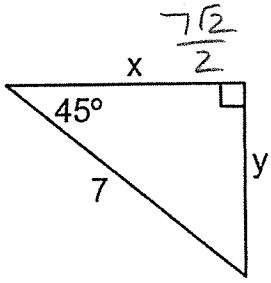


$\frac{5}{2} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{2}$

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

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

2.

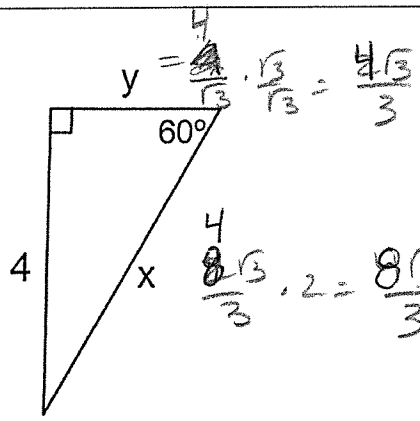


$\frac{7}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{7\sqrt{2}}{2}$

$x = \frac{7\sqrt{2}}{2}$

$y = \frac{7\sqrt{2}}{2}$

3.

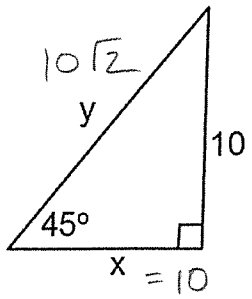


$\frac{4}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{4\sqrt{3}}{3}$

$\frac{8\sqrt{3}}{3} \cdot \frac{2}{2} = \frac{8\sqrt{3}}{3}$

$x = \frac{8\sqrt{3}}{3}$ $y = \frac{4\sqrt{3}}{3}$

4.



$x = 10$

$y = 10\sqrt{2}$