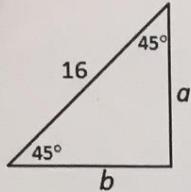


Name: KEY

Date: _____ Period: _____ Geo w/ Trig

Practice B**Part A:** Find the value of the variables. Leave all values in simplest radical form.

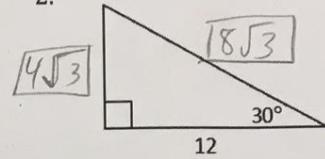
1.



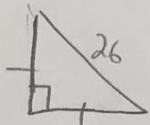
$$a = \frac{16}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{16\sqrt{2}}{2}$$

$$\boxed{a = 8\sqrt{2}} \quad \boxed{b = 8\sqrt{2}}$$

2.



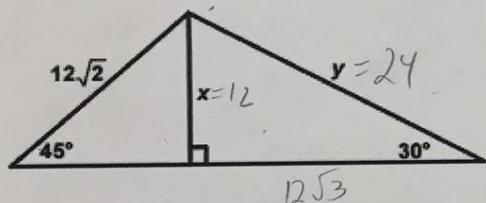
3. An isosceles right triangle has a hypotenuse of length 26. What is the length of each leg?



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

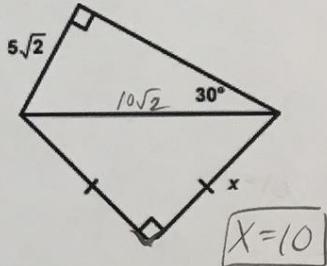
Part B: Find the value of the variables. Leave all values in simplest radical form.

1.



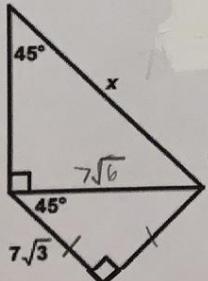
$$\boxed{x = 12} \\ \boxed{y = 24}$$

2.



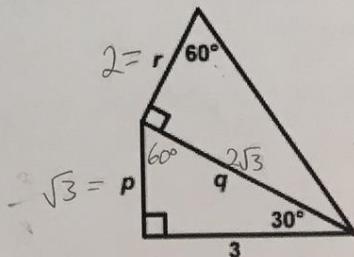
$$\boxed{x = 10}$$

3.



$$x = 7\sqrt{6} \cdot \sqrt{2} \\ x = 7\sqrt{12} \\ x = 7\sqrt{4\sqrt{3}} \\ x = 7 \cdot 2\sqrt{3} \\ \boxed{x = 14\sqrt{3}}$$

4.



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

$$\boxed{r=2} \\ \boxed{p=\sqrt{3}} \\ \boxed{q=2\sqrt{3}}$$