

5.1 Right Triangle Trig Review

Name: Key
Date: _____

I. Find the missing side of each triangle below. Use can use the Pythagorean Theorem, the rules for Special Right Triangles, or SOH CAH TOA.

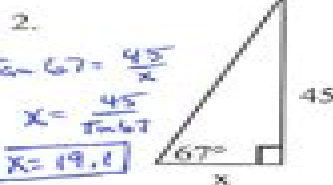


$$x^2 + 9^2 = 12^2$$

$$x^2 + 81 = 144$$

$$x^2 = 63$$

$$x = 3\sqrt{7}$$



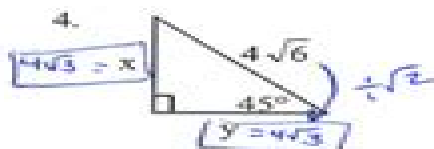
$$\tan 67 = \frac{45}{x}$$

$$x = \frac{45}{\tan 67}$$

$$x = 19.1$$



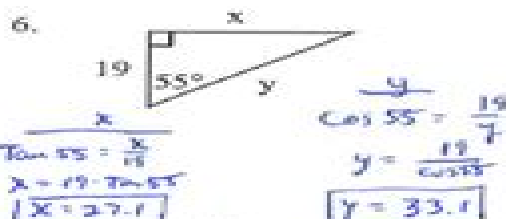
3.



$$(2\sqrt{3})^2 + 8^2 = x^2$$

$$12 + 64 = x^2$$

$$x^2 = 76 \rightarrow x = 2\sqrt{19}$$



6.

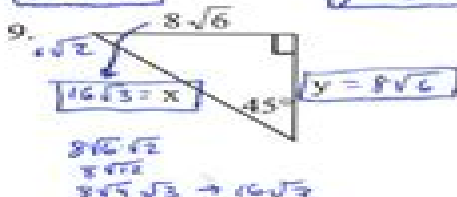
$$\cos 55 = \frac{x}{19}$$

$$x = 19 \cos 55$$

$$x = 27.1$$

$$y = 19 \tan 55$$

$$y = 33.1$$

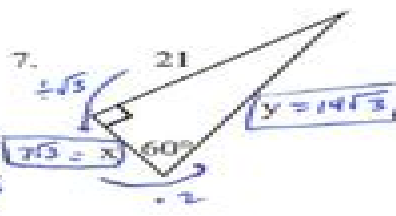


9.

$$8\sqrt{6} \cdot \frac{1}{\sqrt{2}} = x$$

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

$$8\sqrt{3} \cdot \sqrt{3} \rightarrow 16\sqrt{3}$$

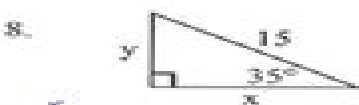


7.

$$\frac{21}{2} \cdot \frac{\sqrt{3}}{1} = y$$

$$10.5\sqrt{3} = y$$

$$10.5\sqrt{3} = 14\sqrt{3}$$



8.

$$\cos 35 = \frac{x}{15}$$

$$x = 15 \cos 35$$

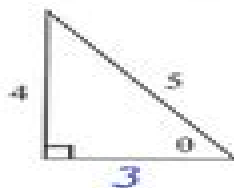
$$x = 12.3$$

$$y = 15 \sin 35$$

$$y = 8.6$$

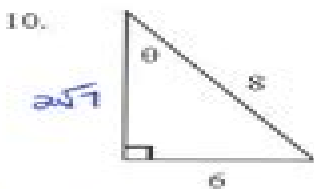
II. Given the following triangles, write out the 6 trig ratios using SOH CAH TOA.

EX.



$$\sin \theta = \frac{4}{5} \quad \cos \theta = \frac{3}{5} \quad \tan \theta = \frac{4}{3}$$

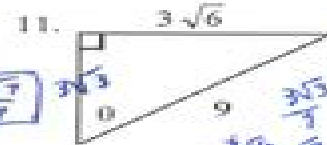
$$\csc \theta = \frac{5}{4} \quad \sec \theta = \frac{5}{3} \quad \cot \theta = \frac{3}{4}$$



$$\sin \theta = \frac{2\sqrt{7}}{8} = \frac{\sqrt{7}}{4} \quad \csc \theta = \frac{4}{\sqrt{7}}$$

$$\cos \theta = \frac{6}{8} = \frac{3}{4} \quad \sec \theta = \frac{4}{3}$$

$$\tan \theta = \frac{2\sqrt{7}}{6} = \frac{\sqrt{7}}{3} \quad \cot \theta = \frac{3}{\sqrt{7}}$$



11.

$$\sin \theta = \frac{3\sqrt{6}}{9\sqrt{2}} = \frac{\sqrt{3}}{3} \quad \csc \theta = \frac{3}{\sqrt{3}}$$

$$\cos \theta = \frac{9}{9\sqrt{2}} = \frac{1}{\sqrt{2}} \quad \sec \theta = \frac{\sqrt{2}}{1}$$

$$\tan \theta = \frac{3\sqrt{6}}{9} = \frac{\sqrt{2}}{3} \quad \cot \theta = \frac{3}{\sqrt{2}}$$

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

$$6^2 + x^2 = 8^2$$

$$x^2 = 28$$

$$x = \sqrt{28} = 2\sqrt{7}$$

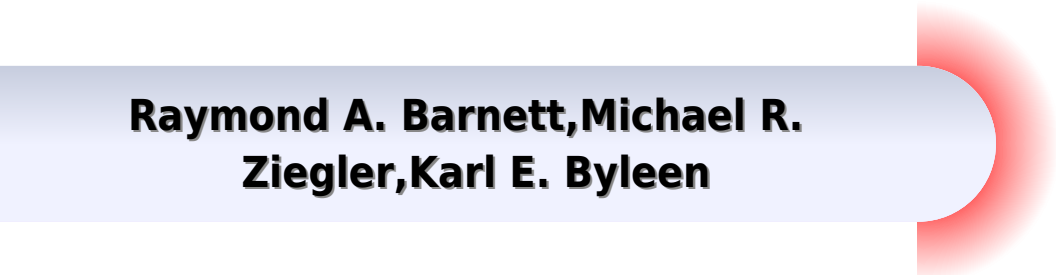
$$(3\sqrt{6})^2 + x^2 = 9^2$$

$$x^2 = 27$$

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

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**Raymond A. Barnett, Michael R.
Ziegler, Karl E. Byleen**



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