

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.



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

$$x^2 + 81 = 144$$

$$x^2 = 63$$

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



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

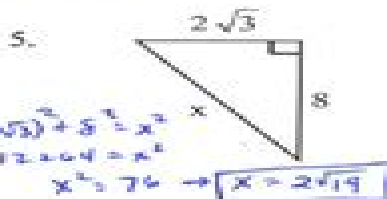
$$x = \frac{45}{\tan 67}$$

$$x = 19.1$$



$$4\sqrt{6} = x$$

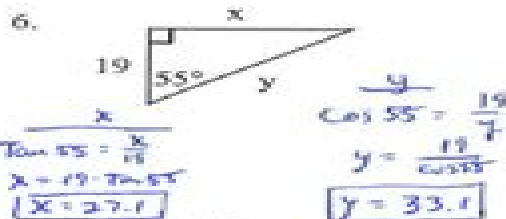
$$y = 4\sqrt{6}$$



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

$$12 + 64 = x^2$$

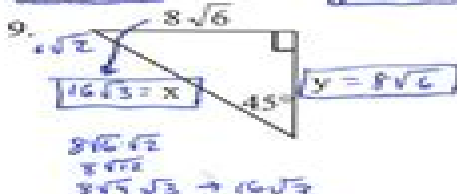
$$x^2 = 76 \rightarrow x = 2\sqrt{19}$$



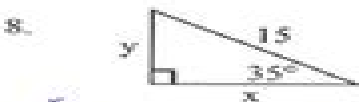
$$\cos 55 = \frac{y}{19}$$

$$y = 19 \cos 55$$

$$y = 33.1$$



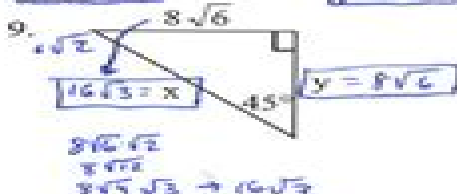
$$y = 14\sqrt{3}$$



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

$$x = 15 \cos 35$$

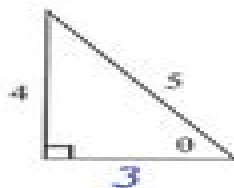
$$x = 12.3$$



$$y = 8\sqrt{6}$$

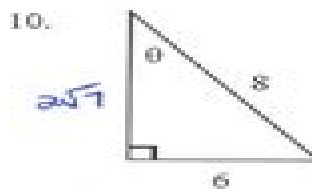
II. Given the following triangles, write out the 6 trig ratios using SOH CAH TOA.

EX.



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

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



$$\sin \theta = \frac{8}{2\sqrt{17}} = \frac{4}{\sqrt{17}}$$

$$\cos \theta = \frac{6}{2\sqrt{17}} = \frac{3}{\sqrt{17}}$$

$$\tan \theta = \frac{4}{3}$$

$$\csc \theta = \frac{\sqrt{17}}{4}$$

$$\sec \theta = \frac{\sqrt{17}}{3}$$

$$\cot \theta = \frac{3}{4}$$



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

$$x^2 = 27$$

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

$$\sin \theta = \frac{9}{3\sqrt{10}} = \frac{3}{\sqrt{10}}$$

$$\cos \theta = \frac{3\sqrt{6}}{3\sqrt{10}} = \frac{\sqrt{6}}{\sqrt{10}}$$

$$\tan \theta = \frac{3}{\sqrt{6}}$$

$$\csc \theta = \frac{\sqrt{10}}{3}$$

$$\sec \theta = \frac{\sqrt{10}}{\sqrt{6}}$$

$$\cot \theta = \frac{\sqrt{6}}{3}$$

$$\frac{3}{\sqrt{10}} = \frac{3\sqrt{10}}{10}$$

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

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

$$x^2 = 28$$

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

Right Triangle Trigonometry Answer Key

Christian Drosten



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