

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.

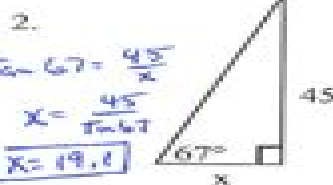


$$x^2 + 9^2 = 12^2$$

$$x^2 + 81 = 144$$

$$x^2 = 63$$

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



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

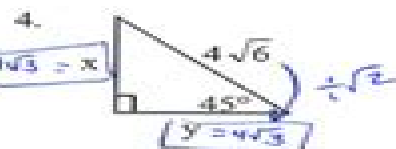
$$x = \frac{45}{\tan 67}$$

$$x = 19.1$$



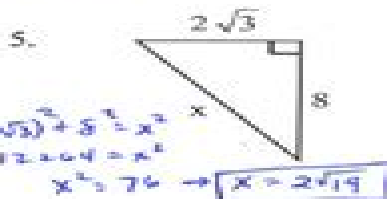
$$y = 21\sqrt{3}$$

$$x = 21$$



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

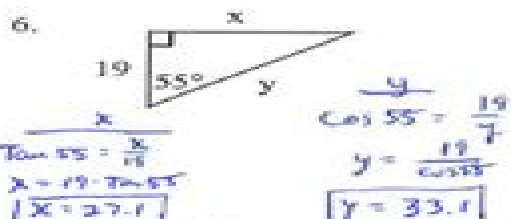
$$y = 4\sqrt{6}$$



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

$$12 + 64 = x^2$$

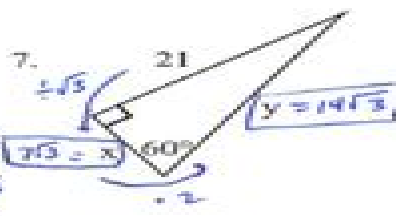
$$x^2 = 76 \rightarrow x = 2\sqrt{19}$$



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

$$y = 19 \cos 55$$

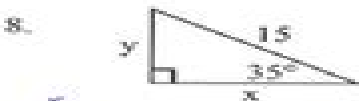
$$y = 33.1$$



$$21 = x \sin 60$$

$$x = \frac{21}{\sin 60}$$

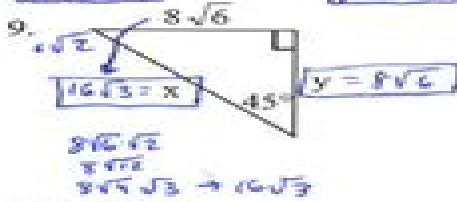
$$x = 24.2$$



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

$$x = 15 \cos 35$$

$$x = 12.3$$

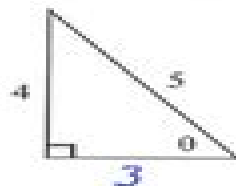


$$16\sqrt{3} = x$$

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

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

EX.



$\sin \theta = \frac{4}{5}$

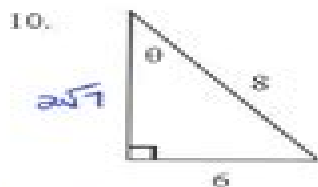
$\cos \theta = \frac{3}{5}$

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

$\csc \theta = \frac{5}{4}$

$\sec \theta = \frac{5}{3}$

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



$\sin \theta = \frac{6}{8} = \frac{3}{4}$

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

$\cos \theta = \frac{2\sqrt{7}}{8} = \frac{\sqrt{7}}{4}$

$\sec \theta = \frac{4}{\sqrt{7}} = \frac{4\sqrt{7}}{7}$

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

$\cot \theta = \frac{7}{3\sqrt{7}} = \frac{\sqrt{7}}{3}$



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

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

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

$\sec \theta = \sqrt{2}$

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

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

$$\frac{3}{\sqrt{6}} = \frac{\sqrt{6}}{2}$$

$$\frac{3}{\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}} = \frac{\sqrt{6}}{2}$$

$$\frac{3\sqrt{6}}{\sqrt{6}\sqrt{6}} = \frac{\sqrt{6}}{2}$$

$$\frac{3\sqrt{6}}{6} = \frac{\sqrt{6}}{2}$$

$$\frac{\sqrt{6}}{2} = \frac{\sqrt{6}}{2}$$

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

$$x^2 = 28$$

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

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

$$x^2 = 27$$

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

Answer Key Amsco Trig

Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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