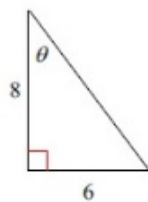


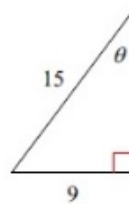
Using a Triangle to Find the 6 Trig Functions Practice Problems

Use the triangle to find the exact values of the six trig functions of θ .

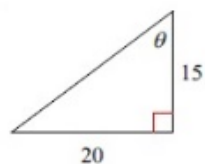
1)



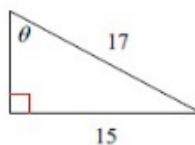
2)



3)



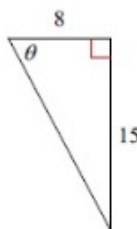
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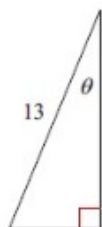
5)



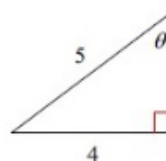
6)



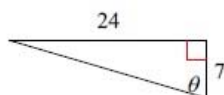
7)



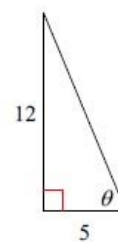
8)



9)



10)



Using a Triangle to Find the 6 Trig Functions
Practice Problems Answers

$$1) \quad \sin(\theta) = \frac{3}{5} \quad \csc(\theta) = \frac{5}{3}$$

$$\cos(\theta) = \frac{4}{5} \quad \sec(\theta) = \frac{5}{4}$$

$$\tan(\theta) = \frac{3}{4} \quad \cot(\theta) = \frac{4}{3}$$

$$2) \quad \sin(\theta) = \frac{3}{5} \quad \csc(\theta) = \frac{5}{3}$$

$$\cos(\theta) = \frac{4}{5} \quad \sec(\theta) = \frac{5}{4}$$

$$\tan(\theta) = \frac{3}{4} \quad \cot(\theta) = \frac{4}{3}$$

$$3) \quad \sin(\theta) = \frac{4}{5} \quad \csc(\theta) = \frac{5}{4}$$

$$\cos(\theta) = \frac{3}{5} \quad \sec(\theta) = \frac{5}{3}$$

$$\tan(\theta) = \frac{4}{3} \quad \cot(\theta) = \frac{3}{4}$$

$$4) \quad \sin(\theta) = \frac{15}{17} \quad \csc(\theta) = \frac{17}{15}$$

$$\cos(\theta) = \frac{8}{17} \quad \sec(\theta) = \frac{17}{8}$$

$$\tan(\theta) = \frac{15}{8} \quad \cot(\theta) = \frac{8}{15}$$

$$5) \quad \sin(\theta) = \frac{24}{25} \quad \csc(\theta) = \frac{25}{24}$$

$$\cos(\theta) = \frac{7}{25} \quad \sec(\theta) = \frac{25}{7}$$

$$\tan(\theta) = \frac{24}{7} \quad \cot(\theta) = \frac{7}{24}$$

$$6) \quad \sin(\theta) = \frac{15}{17} \quad \csc(\theta) = \frac{17}{15}$$

$$\cos(\theta) = \frac{8}{17} \quad \sec(\theta) = \frac{17}{8}$$

$$\tan(\theta) = \frac{15}{8} \quad \cot(\theta) = \frac{8}{15}$$

$$7) \quad \sin(\theta) = \frac{\sqrt{48}}{13} \quad \csc(\theta) = \frac{13\sqrt{48}}{48}$$

$$\cos(\theta) = \frac{11}{13} \quad \sec(\theta) = \frac{13}{11}$$

$$\tan(\theta) = \frac{\sqrt{48}}{11} \quad \cot(\theta) = \frac{11\sqrt{48}}{48}$$

$$8) \quad \sin(\theta) = \frac{4}{5} \quad \csc(\theta) = \frac{5}{4}$$

$$\cos(\theta) = \frac{3}{5} \quad \sec(\theta) = \frac{5}{3}$$

$$\tan(\theta) = \frac{4}{3} \quad \cot(\theta) = \frac{3}{4}$$

$$9) \quad \sin(\theta) = \frac{24}{25} \quad \csc(\theta) = \frac{25}{24}$$

$$\cos(\theta) = \frac{7}{25} \quad \sec(\theta) = \frac{25}{7}$$

$$\tan(\theta) = \frac{24}{7} \quad \cot(\theta) = \frac{7}{24}$$

$$10) \quad \sin(\theta) = \frac{12}{13} \quad \csc(\theta) = \frac{13}{12}$$

$$\cos(\theta) = \frac{5}{13} \quad \sec(\theta) = \frac{13}{5}$$

$$\tan(\theta) = \frac{12}{5} \quad \cot(\theta) = \frac{5}{12}$$

