

Trigonometry

Name: _____

Date: _____

Find the trigonometric ratios.

1) If $\tan\theta = \frac{55}{48}$, Find $\cos\theta$.

2) If $\sec\theta = \frac{13}{12}$, Find $\cot\theta$.

3) If $\cot\theta = \frac{52}{39}$, Find $\cos\theta$.

4) If $\operatorname{cosec}\theta = \frac{17}{8}$, Find $\cos\theta$.

5) If $\tan\theta = \frac{75}{40}$, Find $\operatorname{cosec}\theta$.

6) If $\operatorname{cosec}\theta = \frac{34}{16}$, Find $\sec\theta$.

7) If $\sin\theta = \frac{5}{9}$, Find $\sec\theta$.

8) If $\cos\theta = \frac{\sqrt{15}}{8}$, Find $\operatorname{cosec}\theta$.

9) If $\sin\theta = \frac{21}{35}$, Find $\cot\theta$.

10) If $\sec\theta = \frac{\sqrt{21}}{\sqrt{13}}$, Find $\sin\theta$.

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Name: _____

Date: _____

Find the trigonometric ratios.

1) If $\tan\theta = \frac{55}{48}$, Find $\cos\theta$.

$$\cos\theta = \frac{48}{73}$$

2) If $\sec\theta = \frac{13}{12}$, Find $\cot\theta$.

$$\cot\theta = \frac{12}{5}$$

3) If $\cot\theta = \frac{52}{39}$, Find $\cos\theta$.

$$\cos\theta = \frac{52}{65}$$

4) If $\operatorname{cosec}\theta = \frac{17}{8}$, Find $\cos\theta$.

$$\cos\theta = \frac{15}{17}$$

5) If $\tan\theta = \frac{75}{40}$, Find $\operatorname{cosec}\theta$.

$$\operatorname{cosec}\theta = \frac{85}{75}$$

6) If $\operatorname{cosec}\theta = \frac{34}{16}$, Find $\sec\theta$.

$$\sec\theta = \frac{34}{30}$$

7) If $\sin\theta = \frac{5}{9}$, Find $\sec\theta$.

$$\sec\theta = \frac{9}{\sqrt{56}}$$

8) If $\cos\theta = \frac{\sqrt{15}}{8}$, Find $\operatorname{cosec}\theta$.

$$\operatorname{cosec}\theta = \frac{8}{7}$$

9) If $\sin\theta = \frac{21}{35}$, Find $\cot\theta$.

$$\cot\theta = \frac{28}{21}$$

10) If $\sec\theta = \frac{\sqrt{21}}{\sqrt{13}}$, Find $\sin\theta$.

$$\sin\theta = \frac{\sqrt{8}}{\sqrt{21}}$$
