

# Trigonometry

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Find the trigonometric ratios.

1) If  $\cos\theta = \frac{84}{85}$ , Find  $\cot\theta$ .

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2) If  $\sin\theta = \frac{56}{112}$ , Find  $\tan\theta$ .

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3) If  $\tan\theta = \frac{35}{84}$ , Find  $\operatorname{cosec}\theta$ .

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4) If  $\cot\theta = \frac{79}{22}$ , Find  $\cos\theta$ .

\_\_\_\_\_

5) If  $\cot\theta = \frac{80}{39}$ , Find  $\sin\theta$ .

\_\_\_\_\_

6) If  $\sec\theta = \frac{86}{79}$ , Find  $\sin\theta$ .

\_\_\_\_\_

7) If  $\cos\theta = \frac{\sqrt{40}}{11}$ , Find  $\tan\theta$ .

\_\_\_\_\_

8) If  $\tan\theta = \frac{4}{\sqrt{20}}$ , Find  $\operatorname{cosec}\theta$ .

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9) If  $\operatorname{cosec}\theta = \frac{90}{54}$ , Find  $\cot\theta$ .

\_\_\_\_\_

10) If  $\cot\theta = \frac{\sqrt{7}}{\sqrt{2}}$ , Find  $\sin\theta$ .

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Find the trigonometric ratios.

1) If  $\cos\theta = \frac{84}{85}$ , Find  $\cot\theta$ .

$$\cot\theta = \frac{84}{13}$$

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2) If  $\sin\theta = \frac{56}{112}$ , Find  $\tan\theta$ .

$$\tan\theta = \frac{56}{97}$$

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3) If  $\tan\theta = \frac{35}{84}$ , Find  $\operatorname{cosec}\theta$ .

$$\operatorname{cosec}\theta = \frac{91}{35}$$

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4) If  $\cot\theta = \frac{79}{22}$ , Find  $\cos\theta$ .

$$\cos\theta = \frac{79}{82}$$

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5) If  $\cot\theta = \frac{80}{39}$ , Find  $\sin\theta$ .

$$\sin\theta = \frac{39}{89}$$

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6) If  $\sec\theta = \frac{86}{79}$ , Find  $\sin\theta$ .

$$\sin\theta = \frac{34}{86}$$

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7) If  $\cos\theta = \frac{\sqrt{40}}{11}$ , Find  $\tan\theta$ .

$$\tan\theta = \frac{9}{\sqrt{40}}$$

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8) If  $\tan\theta = \frac{4}{\sqrt{20}}$ , Find  $\operatorname{cosec}\theta$ .

$$\operatorname{cosec}\theta = \frac{6}{4}$$

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9) If  $\operatorname{cosec}\theta = \frac{90}{54}$ , Find  $\cot\theta$ .

$$\cot\theta = \frac{72}{54}$$

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10) If  $\cot\theta = \frac{\sqrt{7}}{\sqrt{2}}$ , Find  $\sin\theta$ .

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

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