

#1-3, Use your *unit circle* to answer the following questions.

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| 1. In which quadrants is <i>sine</i> positive? _____ | In which quadrants is <i>sine</i> negative? _____ |
| 2. In which quadrants is <i>cosine</i> positive? _____ | In which quadrants is <i>cosine</i> negative? _____ |
| 3. In which quadrants is <i>tangent</i> positive? _____ | In which quadrants is <i>tangent</i> negative? _____ |

#4-7, Find each Trig ratio for angle measure.

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| 4. Angle = 120° | 5. $\theta = \frac{7\pi}{4}$ | 6. $\theta = -120$ | 7. $\theta = \frac{7\pi}{3}$ |
| Sin Angle = | Sin $\theta =$ | Sin $\theta =$ | Sin $\theta =$ |
| Cos Angle = | Cos $\theta =$ | Cos $\theta =$ | Cos $\theta =$ |
| Tan Angle = | Tan $\theta =$ | Tan $\theta =$ | Tan $\theta =$ |

8. 1 radian \approx _____ degrees.

#9-12, Find the value of θ in degrees without a calculator (use Unit Circle). There is more than one answer.

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| 9. $\sin \theta = \frac{-1}{2}$ | 10. $\cos \theta = \frac{-\sqrt{2}}{2}$ | 11. $\sin \theta = \frac{\sqrt{2}}{2}$ | 12. $\tan \theta = \sqrt{3}$ |
|---------------------------------|---|--|------------------------------|

#13-16, Find the value of θ in radians without a calculator (use Unit Circle). There is more than one answer.

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| 13. $\sin \theta = \frac{-\sqrt{2}}{2}$ | 14. $\cos \theta = \frac{\sqrt{3}}{2}$ | 15. $\cos \theta = \frac{-1}{2}$ | 16. $\tan \theta = -1$ |
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17. Name the angle in QI in radians

18. Name an angle in QIII in degrees