

Trig Practice

Name: _____

Date: _____

1. P is a point on the terminal arm of an angle θ in standard position. Suppose $\theta = -750^\circ$. Where is P located?

A. in quadrant I
B. in quadrant III
C. in quadrant IV
D. on the positive y -axis

2. If $\cot \theta > 0$, then the terminal side of θ may lie in what quadrant(s)?

A. I and II B. I and III
C. II only D. II and IV

3. Which of the following angles is coterminal with -610° ?

A. 20° B. 70° C. 110° D. 610°

4. What is the reference angle of -820° ?

A. -60° B. 10° C. 60° D. 80°

5. Express $\sin 280^\circ$ as a function of a positive acute angle in terms of $\sin x$.

A. $-\sin 80^\circ$ B. $\sin 80^\circ$
C. $-\sin 10^\circ$ D. $\sin 10^\circ$

6. Express $\tan(-310^\circ)$ as a function of a positive acute angle in terms of $\tan x$.

A. $\tan 50^\circ$ B. $-\tan 40^\circ$
C. $-\tan 50^\circ$ D. $\tan 40^\circ$

7. Express $\cos(-50^\circ)$ as a function of a positive acute angle in terms of $\cos x$.

A. $\cos 50^\circ$ B. $-\cos 40^\circ$
C. $-\cos 50^\circ$ D. $\cos 40^\circ$

8. Write an expression to represent any angle coterminal with the angle 170° (n is an integer).

A. $360^\circ + n(170^\circ)$ B. $170^\circ + n(360^\circ)$
C. $170^\circ + n(180^\circ)$ D. $n(240^\circ)$

9. If the point $P(-4, 1)$ is a point on the terminal side of angle θ in standard position, then what is the exact value of $\csc \theta$?

10. If the point $P(-4, 1)$ is a point on the terminal side of angle θ in standard position, then what is the exact value of $\csc \theta$?

11. If the point $P(-4, 1)$ is a point on the terminal side of angle θ in standard position, then what is the exact value of $\csc \theta$?

12. Find the numerical value of $\sin 49^\circ 23'$.

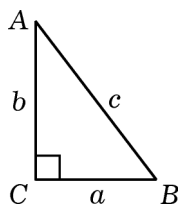
13. Express $\cos 295^\circ$ as a function of a positive acute angle.

14. Which of the following ratios is equivalent to $\frac{1}{\cos}$?

A. $\frac{\text{opposite}}{\text{hypotenuse}}$ B. $\frac{\text{hypotenuse}}{\text{adjacent}}$
C. $\frac{\text{hypotenuse}}{\text{opposite}}$ D. $\frac{\text{opposite}}{\text{adjacent}}$

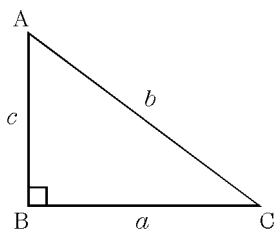
15. Given the triangle shown, which of the following is true?

- A. $\sin B = \frac{c}{b}$
 B. $\cos A = \frac{c}{b}$
 C. $\tan A = \frac{b}{a}$
 D. $\sin B = \frac{b}{c}$



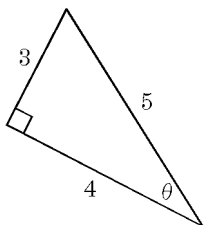
16. Which of the following statements is *incorrect* for $\triangle ABC$?

- A. $\sin A = \frac{c}{b}$
 B. $\tan A = \frac{a}{c}$
 C. $a^2 + c^2 = b^2$
 D. $\tan C = \frac{c}{a}$



17. Given the following triangle, $\cos \theta = \underline{\hspace{1cm}}$.

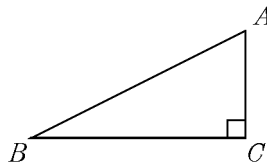
- A. $\frac{3}{5}$ B. $\frac{4}{5}$
 C. $\frac{4}{3}$ D. $\frac{5}{3}$



18. If $\sin \angle B = \frac{4}{5}$ and $\cos \angle B = \frac{3}{5}$, what is $\tan \angle B$?

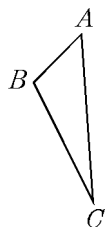
- A. $\frac{4}{3}$ B. $\frac{3}{4}$ C. $\frac{7}{5}$ D. $\frac{1}{5}$

19. In the triangle below, $\sin B = \frac{8}{17}$. Find $\cos A$.



- A. $\frac{8}{17}$ B. $\frac{17}{15}$ C. $\frac{8}{15}$ D. $\frac{15}{17}$

20. For the triangle shown, $m\angle B = 90$ and $\cos C = \frac{15}{17}$. What is $\cos A$?

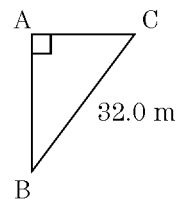


- A. $\frac{15}{8}$ B. $\frac{8}{15}$ C. $\frac{15}{17}$ D. $\frac{8}{17}$

21. If $\sin \theta = -\frac{2}{5}$ and $\tan \theta > 0$, then what is the $\cos \theta$ expressed as an exact value?

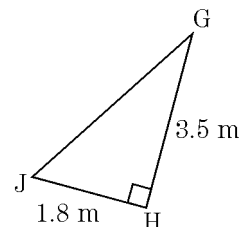
22. In $\triangle ABC$, calculate $\angle C$ to the nearest degree given that $AC = 23.0$ m.

- A. 36° B. 44°
 C. 48° D. 54°



23. In the triangle, determine $\angle J$ to the nearest degree.

- A. 27° B. 31°
 C. 53° D. 63°



Trig Practice 02/05/2016

1.
 Answer: C
 Objective: F.TF.2

2.
 Answer: B
 Objective: F.TF.2

3.
 Answer: C
 Objective: F.TF.2

4.
 Answer: D
 Objective: F.TF.2

5.
 Answer: A
 Objective: F.TF.2

6.
 Answer: A
 Objective: F.TF.2

7.
 Answer: A
 Objective: F.TF.2

8.
 Answer: B
 Objective: F.TF.2

9.
 Answer: $\sqrt{17}$
 Objective: F.TF.2

10.
 Answer: $\sqrt{17}$
 Objective: F.TF.2

11.
 Answer: $\sqrt{17}$
 Objective: F.TF.2

12.
 Answer: 0.7591
 Objective: F.TF.2

13.
 Answer: $\cos 65^\circ$ or $\sin 25^\circ$
 Objective: F.TF.2

14.
 Answer: B
 Objective: G.SRT.6

15.
 Answer: D
 Objective: G.SRT.6

16.
 Answer: A
 Objective: G.SRT.6

17.
 Answer: B
 Objective: G.SRT.6

18.
 Answer: A
 Objective: G.SRT.6

19.
 Answer: A
 Objective: G.SRT.7

20.
 Answer: D
 Objective: G.SRT.7

21.
 Answer: $-\frac{\sqrt{21}}{5}$
 Objective: G.SRT.7

22.
 Answer: B
 Objective: G.SRT.8

23.
 Answer: D
 Objective: G.SRT.8