

Cumulative Review #1

Find the exact value of each trigonometric function. Draw and label triangle or point.
Show all necessary work.

1. $\csc(-240^\circ) =$

2. $\cot(-150^\circ) =$

3. $\sin\left(-\frac{7\pi}{6}\right) =$

4. $\cos\left(-\frac{\pi}{3}\right) =$

5. $\csc\left(\frac{\pi}{3}\right) =$

6. $\tan\left(\frac{\pi}{4}\right) =$

7. $\cot\left(\frac{5\pi}{3}\right) =$

8. $\sin\left(\frac{7\pi}{6}\right) =$

Use the given point on the terminal side of angle θ to find the value of the trigonometric function indicated.

9. $(-5, 10)$ $\tan \theta$

10. $(3, 4)$ $\sin \theta$

11. $(-8, -\sqrt{17})$ $\cos \theta$

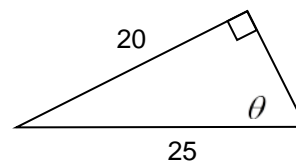
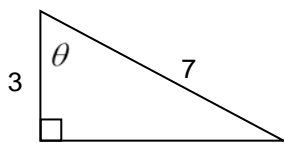
12. $(7, \sqrt{15})$ $\cos \theta$

13. $(-2\sqrt{5}, -4)$ $\sin \theta$

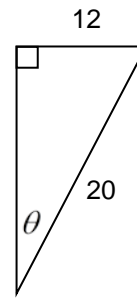
Find the value of the trigonometric function. Show all necessary work.

14. $\sin \theta =$

15. $\tan \theta =$



16. $\cos \theta =$



Convert each degree measure into radians and each radian measure into degrees.

17. 240°

18. $\frac{5\pi}{4}$

19. 300°

20. $\frac{5\pi}{6}$

Answers

1. $\frac{2\sqrt{3}}{3}$

2. $\sqrt{3}$

3. $\frac{1}{2}$

4. $\frac{1}{2}$

5. $\frac{2\sqrt{3}}{3}$

6. 1

7. $-\frac{\sqrt{3}}{3}$

8. $-\frac{1}{2}$

9. -2

10. $\frac{4}{5}$

11. $-\frac{8}{9}$

12. $\frac{7}{8}$

13. $-\frac{2}{3}$

14. $\frac{2\sqrt{10}}{7}$

15. $\frac{4}{3}$

16. $\frac{4}{5}$

17. $\frac{4\pi}{3}$

18. 225°

19. $\frac{5\pi}{3}$

20. 150°