Pre-Calculus HW Quiz 4.3 Name_____

Determine the sign (positive or negative) of the given value without use of a calculator.

1) $\sin\left(-\frac{\pi}{7}\right)$

A) Negative B) Positive

2) $\tan 260°$

A) Negative B) Positive

3) $\cos 190°$

A) Negative B) Positive

4) $\sin\frac{8\pi}{5}$

A) Positive B) Negative

Evaluate without using a calculator by using ratios in a reference triangle.

5) $\sin 60°$

A) $\frac{\sqrt{2}}{2}$ B) $\frac{\sqrt{3}}{2}$ C) $\frac{1}{2}$ D) $\frac{\sqrt{3}}{3}$

6) $\cos 210°$

A) $\frac{\sqrt{2}}{2}$ B) $-\frac{\sqrt{3}}{2}$ C) $-\frac{\sqrt{2}}{2}$ D) $\frac{\sqrt{3}}{2}$

7) $\cot 120°$

A) $-\frac{\sqrt{3}}{3}$ B) -1 C) $-\sqrt{3}$ D) $\frac{\sqrt{3}}{3}$

8) $\tan\left(-\frac{2\pi}{3}\right)$

A) $\sqrt{3}$ B) $-\sqrt{3}$ C) $-\frac{\sqrt{3}}{3}$ D) $\frac{\sqrt{3}}{3}$

9) $\sec\frac{3\pi}{4}$

A) -1 B) $-\frac{\sqrt{3}}{2}$ C) $-\sqrt{2}$ D) $-\frac{2\sqrt{3}}{3}$

10) $\csc \frac{4\pi}{3}$

A) $-\sqrt{2}$ B) $-\frac{\sqrt{3}}{2}$ C) $-\frac{2\sqrt{3}}{3}$ D) -1

Point P is on the terminal side of θ. Evaluate the six trigonometric functions for θ. If the function is undefined, write "undefined."

11) P(3, –2)

Evaluate without using a calculator.

12) $\sin \theta$, if $\cos \theta = \frac{8}{9}$ and $\tan \theta < 0$

13) $\csc \theta$, if $\cot \theta = -\frac{9}{2}$ and $\cos \theta < 0$