

Name _____
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Date _____
Pre Calculus

Advanced Trig Ratios

1. If $\cos \theta = \frac{12}{13}$ and θ is in Quadrant I, find:

- a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

- d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$

2. If $\sin \theta = -\frac{3}{5}$ and θ is in Quadrant III, find:

- a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

- d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$

3. If $\tan \theta = \frac{24}{7}$ and θ is in Quadrant III, find:

- a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

- d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$

4. If $\sin \theta = \frac{5}{8}$ and θ is in Quadrant II, find:

- a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

- d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$

5. Angle θ is in standard position and $(3,4)$ is a point on the terminal side of θ . Find:

a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$

6. Angle θ is in standard position and $(4,-7)$ is a point on the terminal side of θ . Find:

a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$

7. Angle θ is in standard position and $(-5, -12)$ is a point on the terminal side of θ . Find:

a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$

8. Angle θ is in standard position and $(-2, 3)$ is a point on the terminal side of θ . Find:

a) $\cos \theta$ b) $\sin \theta$ c) $\tan \theta$

d) $\sec \theta$ e) $\csc \theta$ f) $\cot \theta$