

Unit 8 (Chpt 13)

Summary WS

Name _____

Assign # _____

Date _____

$$\sin \theta = \frac{y}{r} \quad \csc \theta = \frac{1}{\sin \theta} = \frac{r}{y} \quad \cos \theta = \frac{x}{r} \quad \sec \theta = \frac{1}{\cos \theta} = \frac{r}{x} \quad \tan \theta = \frac{y}{x} \quad \cot \theta = \frac{1}{\tan \theta} = \frac{x}{y}$$

1. Each coordinate below is a point on the terminal side of angle θ in standard position. Sketch θ and find $\sin \theta$, $\cos \theta$, and $\tan \theta$ in terms of x , y , and r . Write as a simplified ratio. Do not convert to a decimal.

Example: $A(-3, -9)$

$$r = \sqrt{(-3)^2 + (-9)^2}$$



$$\begin{aligned} \sin \theta &= \frac{y}{r} = \frac{-9}{\sqrt{90}} = -\frac{9}{\sqrt{9 \cdot 10}} = -\frac{9}{3\sqrt{10}} = -\frac{3}{\sqrt{10}} \\ \cos \theta &= \frac{x}{r} = \frac{-3}{\sqrt{90}} = -\frac{3}{\sqrt{9 \cdot 10}} = -\frac{3}{3\sqrt{10}} = -\frac{1}{\sqrt{10}} \\ \tan \theta &= \frac{y}{x} = \frac{-9}{-3} = 3 \end{aligned}$$

a. $B(5, -12)$ b. $C(3, 7)$ c. $D(12, -8)$ d. $E(-10, 15)$ e. $F(-4, -8)$ 

$$\sin \theta = -\frac{12}{13}$$

$$\cos \theta = \frac{5}{13}$$

$$\tan \theta = -\frac{12}{5}$$



$$\sin \theta = \frac{7\sqrt{14}}{14}$$

$$\cos \theta = \frac{\sqrt{14}}{14}$$

$$\tan \theta = \frac{7}{3}$$



$$\sin \theta = -\frac{2\sqrt{13}}{13}$$

$$\cos \theta = \frac{12\sqrt{13}}{13}$$

$$\tan \theta = -\frac{2}{12}$$



$$\sin \theta = \frac{15\sqrt{25}}{25}$$

$$\cos \theta = -\frac{10\sqrt{25}}{25}$$

$$\tan \theta = -\frac{15}{10}$$



$$\sin \theta = -\frac{8\sqrt{80}}{80}$$

$$\cos \theta = -\frac{4\sqrt{80}}{80}$$

$$\tan \theta = -\frac{8}{4} = 2$$

2. Sketch the vector that terminates at $(-3, 2)$. Label θ the angle in standard position. Find the following trigonometric ratios.

$$\sin \theta = \frac{2\sqrt{13}}{13}$$

$$\csc \theta = \frac{\sqrt{13}}{2}$$

$$\cos \theta = -\frac{3\sqrt{13}}{13}$$

$$\sec \theta = -\frac{\sqrt{13}}{3}$$

$$\tan \theta = -\frac{2}{3}$$

$$\cot \theta = -\frac{3}{2}$$



3. θ is an angle in standard position with terminal side in quadrant I. $\cos \theta = \frac{\sqrt{3}}{2}$. Sketch θ . Sketch the other angle (in a different quadrant) that has the same value for cosine. What is the measure of this other angle in radians? Find the $\sin \theta$, $\csc \theta$, $\tan \theta$, $\sec \theta$, and $\cot \theta$ for both angles.

$$\theta = 30^\circ, 330^\circ$$

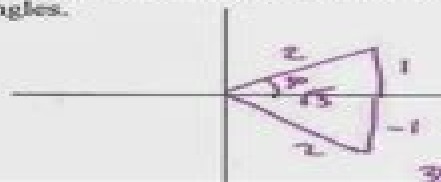
$$\sin \theta = \frac{1}{2}$$

$$\csc \theta = 2$$

$$\tan \theta = \frac{\sqrt{3}}{3}$$

$$\cot \theta = \sqrt{3}$$

$$\sec \theta = \frac{2\sqrt{3}}{3}$$



$$\sin \theta = \frac{1}{2} \quad \csc \theta = 2$$

$$\tan \theta = \frac{\sqrt{3}}{3} \quad \cot \theta = \sqrt{3}$$

$$\sec \theta = \frac{2\sqrt{3}}{3}$$

$$330^\circ, \frac{2\pi}{180^\circ} = \frac{11\pi}{6}$$

 $30^\circ \rightarrow$
 330°

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Michael R. Lindeburg



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