

## Unit 8 (Chpt 13)

## Summary WS

Name \_\_\_\_\_

Assign # \_\_\_\_\_ Date \_\_\_\_\_

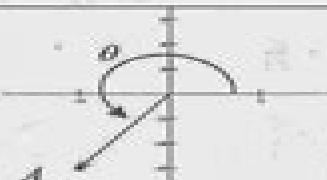
$$\sin \theta = \frac{y}{r} \quad \csc \theta = \frac{1}{\sin \theta} = \frac{r}{y} \quad \cos \theta = \frac{x}{r} \quad \sec \theta = \frac{1}{\cos \theta} = \frac{r}{x} \quad \tan \theta = \frac{y}{x} \quad \cot \theta = \frac{1}{\tan \theta} = \frac{x}{y}$$

1. Each coordinate below is a point on the terminal side of angle  $\theta$  in standard position. Sketch  $\theta$  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.  $B(3, -12)$



$\sin \theta = -\frac{12}{15}$

$\cos \theta = \frac{3}{5}$

$\tan \theta = -4$

b.  $C(5, 7)$



$\sin \theta = \frac{7}{\sqrt{74}}$

$\cos \theta = \frac{5}{\sqrt{74}}$

$\tan \theta = \frac{7}{5}$

c.  $D(12, -8)$



$\sin \theta = -\frac{8}{13}$

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

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

d.  $E(-10, 15)$



$\sin \theta = \frac{15}{\sqrt{325}}$

$\cos \theta = -\frac{10}{\sqrt{325}}$

$\tan \theta = -\frac{15}{10} = -\frac{3}{2}$

e.  $F(-4, -8)$



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

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

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

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

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

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

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

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

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

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



3.  $\theta$  is an angle in standard position with terminal side in quadrant I.  $\cos \theta = \frac{\sqrt{3}}{2}$ . Sketch  $\theta$ . 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.

$\theta = 30^\circ, 330^\circ$   
 $330^\circ, \frac{11\pi}{6}$

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

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

$\csc \theta = 2$

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

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

$\csc \theta = 2$

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

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

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

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



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

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

$\csc \theta = 2$

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**Texas Education Agency**

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