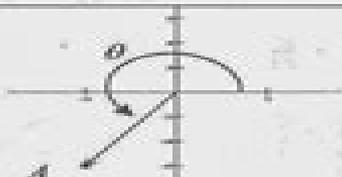Name _____

Assign # _____ Date _____

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

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:
$A(-3, -9)$

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

$$\sin\theta = \frac{y}{r} = \frac{-9}{\sqrt{90}} = -\frac{9}{\sqrt{9\cdot10}} = -\frac{9}{3\sqrt{10}} = -\frac{3}{\sqrt{10}}$$

$$\cos\theta = \frac{x}{r} = \frac{-3}{\sqrt{90}} = -\frac{3}{\sqrt{9\cdot10}} = -\frac{3}{3\sqrt{10}} = -\frac{1}{\sqrt{10}}$$
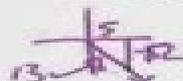
$$\tan\theta = \frac{y}{x} = \frac{-9}{-3} = 3$$

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

a. $\sin\theta = -\frac{12}{13}$, $\cos\theta = \frac{5}{13}$, $\tan\theta = -\frac{12}{5}$

b. $\sin\theta = \frac{7\sqrt{74}}{74}$, $\cos\theta = \frac{5\sqrt{74}}{74}$, $\tan\theta = \frac{7}{5}$

c. $\sin\theta = -\frac{2\sqrt{13}}{13}$, $\cos\theta = \frac{3\sqrt{13}}{13}$, $\tan\theta = -\frac{8}{12}$

d. $\sin\theta = \frac{3\sqrt{13}}{13}$, $\cos\theta = -\frac{2\sqrt{13}}{13}$, $\tan\theta = -\frac{15}{10}$

e. $\sin\theta = -\frac{2\sqrt{5}}{5}$, $\cos\theta = -\frac{\sqrt{5}}{5}$, $\tan\theta = -\frac{8}{-4} = 2$

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.

$\theta = 30°, 330°$

$330°: \frac{\pi}{180°} = \frac{11\pi}{6}$

$30°$

$\sin\theta = \frac{1}{2}$, $\tan\theta = \frac{\sqrt{3}}{3}$, $\csc\theta = 2$, $\cot\theta = \sqrt{3}$, $\sec\theta = \frac{2\sqrt{3}}{3}$

$\sin\theta = -\frac{1}{2}$, $\csc\theta = -2$, $\tan\theta = -\frac{\sqrt{3}}{3}$, $\cot\theta = -\sqrt{3}$, $\sec\theta = \frac{2\sqrt{3}}{3}$

$330°$

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Swarthmore College

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