MC

Reduce

$$\frac{288^{\circ} \longrightarrow 288 \cdot \pi}{180} = \frac{288\pi}{180} = \frac{8\pi}{5}$$

(3)



$$A = 486 \text{ ft}^2, R = 9 \text{ ft}; \Lambda = ?$$

$$A = \frac{1}{2}R^2 \cdot \Theta \rightarrow 486 = \frac{1}{2} \cdot (9)^2 \cdot \Theta$$

$$\rightarrow 486 = \frac{81}{2} \cdot \Theta \rightarrow \Theta = 12 \text{ (nadian)}$$

(5) This is the unit circle, no sin 0 = y-coord = - 24

$$S_0$$
, $CNED = \frac{1}{NinD} = -\frac{25}{24}$

Jeda 4 = mn n can n

- 6) $\tan s = -\frac{13}{3}$. Base on the unit could, $s = \frac{5\pi}{6}$ on $s = \frac{11\pi}{6}$. Since we are told s in $\left[\frac{3\pi}{2}, 2\pi\right]$ (OII), s must be $\frac{11\pi}{6}$
- $\frac{1}{7} \frac{4 \sin^2 5 = 3}{4} \sin^2 5 = \frac{3}{4} \sin 5 = \pm \frac{3}{4} = \pm \frac{3}{2}.$ Buse on unit wick (angle with y-coord = $\pm \frac{3}{2}$) one $5 = \frac{\pi}{3}, \frac{2\pi}{3}; \frac{4\pi}{3}; \frac{5\pi}{3}$ $\sin 5 = \frac{1}{3}$ $\sin 5 = \frac{1}{3}$ $\sin 5 = \frac{1}{3}$ $\sin 5 = \frac{1}{3}$

(8) 1. y = nin (3x). Period =
$$\frac{2\pi}{3}$$
, Amplitude = 1 - graph B.

4. y = con(3x). Pariod =
$$\frac{2\pi}{3}$$
, Amplitude = 1 - graph A.

$$9 = 5 \sin\left(\frac{1}{4}x - \frac{\pi}{2}\right)$$

Period =
$$\frac{2\pi}{4}$$
 = $\frac{2\pi}{4}$ = $\frac{8\pi}{4}$

(10)
$$y = -2\cos\left(3x + \frac{\pi}{4}\right)$$

$$\frac{1}{4} = -\frac{5}{6} \left(x + \frac{\pi}{4} \right)$$

Monday, March 2, 2020

10:03 AM

whilt
$$\frac{\pi}{2}$$
 + night

1.
$$y = -\tan\left(x - \frac{\pi}{2}\right)$$
 \rightarrow Graph D.

2.
$$y = \tan\left(x + \frac{\pi}{2}\right)$$

Reflect over x-axis

2.
$$y = \tan \left(x + \frac{\pi}{2}\right)$$
 shift $\frac{\pi}{2}$ to left \rightarrow graph A

Reflect over x-axin

4.
$$y = \cot(x + \frac{\pi}{2})$$
 shift $\frac{\pi}{2}$ to left B .

Area =
$$\frac{1}{2}R^2 \cdot \Theta = \frac{1}{2} \cdot (7.4)^2 \cdot \frac{157\pi}{90} \approx 150.1 \text{ mi}^2$$

This is the unit circle.

So,
$$con\theta = x - coord = \frac{5}{13}$$

$$Ain \Theta = y - con rd = \frac{12}{13}$$

$$\cot \theta = \frac{5}{13} = \frac{5}{13} = \frac{5}{12}$$

$$\cot \theta = \frac{12}{13} = \frac{5}{12} = \frac{5}{12}$$

tans = 1.

$$\Delta = \frac{\pi}{4}$$
 and $\Delta = \frac{5\pi}{4}$.

Since we are told s in
$$\left[\pi, \frac{3\pi}{2}\right]$$
 (Quadrant 3)

$$\Delta = \frac{5\pi}{4}$$

Gas = 1.1691.

$$\Delta = \Delta \ln \left(\frac{1}{1.1691}\right) = 1.026$$

$$\frac{17}{17} + \frac{1}{17} = \frac{1}{3} - \frac{1}{13} = \frac{1}{13} = \frac{1}{13} = \frac{1}{13} = \frac{1}{13}$$
(0A)

Base on unt circle:

$$A = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$$
 $A = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$
 $A = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$

(18)
$$y = -2 + \sin(x + \frac{\pi}{2})$$
. Period = 2π

Busic cycle:
$$x + \frac{\pi}{2} = 0 \rightarrow x = -\frac{\pi}{2}$$

$$x + \frac{\pi}{2} = 2r \rightarrow x = 2\pi - \frac{\pi}{2} = \frac{3\pi}{2}$$

basic sine pattern

Milted down by 2

$$y = -2 + mn \left(x + \frac{\pi}{2}\right)$$