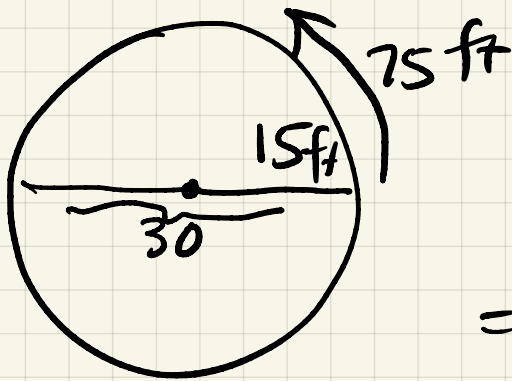


Quiz 3

#1

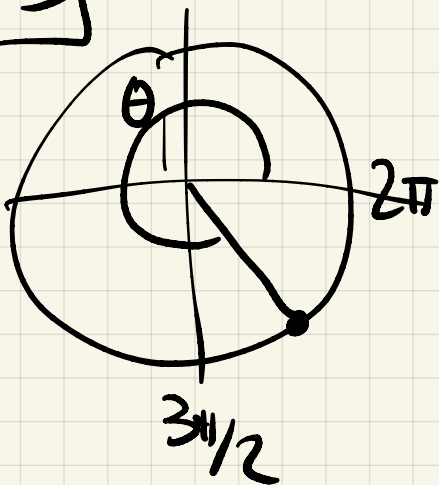


$$\theta = \frac{75}{15} = 5 \text{ radians}$$
$$= 5 \cdot \left(\frac{180}{\pi}\right) = \left(\frac{900}{\pi}\right)^\circ$$

#2

$$25^{-2/3} \cdot 5^{1/3} = (5^2)^{-2/3} \cdot 5^{1/3} =$$
$$5^{-4/3} \cdot 5^{1/3} = 5^{-4/3+1/3} = 5^{-1} = \frac{1}{5}$$

#3



$$\cos \theta = 3/5$$

$$\cos^2 \theta + \sin^2 \theta = 1$$

$$\frac{9}{25} + \sin^2 \theta = 1$$

$$\sin^2 \theta = 16/25 \Rightarrow$$

$$\sin \theta = \pm 4/5$$

Quad IV \Rightarrow $\sin \theta = -4/5$

$$\tan \theta = -4/3$$