

Solutions to Quizz I

Math1060-02

Problem 1 (4points) Find the complement and the supplement of the angle:

$$\frac{\pi}{12}$$
$$\text{complement} = \frac{\pi}{2} - \frac{\pi}{12} = \frac{5\pi}{12}$$
$$\text{supplement} = \pi - \frac{\pi}{12} = \frac{11\pi}{12}$$

Problem 2 (4 points) Write each angle in degree mesure

(a) $-\frac{7\pi}{12}\text{rad} = -\frac{7\pi}{12} * \frac{180^\circ}{\pi} = -105^\circ$

(b) $\frac{\pi}{9}\text{rad} = \frac{\pi}{9} * \frac{180^\circ}{\pi} = 20^\circ$

Problem 3 (4 points) Use the value of the trigonometric function $\sin(-t) = \frac{3}{8}$ to evaluate

(a) $\sin t = -\sin(-t) = -\frac{3}{8}$

(b) $\csc t = \frac{1}{\sin t} = -\frac{8}{3}$