

Week 8 Homework

Question 3

$$(a) \quad \frac{\sqrt{2} - \sqrt{6}}{4} \quad \text{OR} \quad -0.2558$$

Question 11

$$x = \frac{\pi}{4}, \frac{\pi}{2}, \frac{3}{4}\pi, \frac{5}{4}\pi, \frac{3}{2}\pi, \frac{7}{4}\pi$$

Question 8

$$\sin\left(\frac{19\pi}{12}\right) = \frac{-\sqrt{6} - \sqrt{2}}{4}$$

$$\cos\left(\frac{19\pi}{12}\right) = \frac{\sqrt{6} - \sqrt{2}}{4}$$

$$\tan\left(\frac{19\pi}{12}\right) = -2 - \sqrt{3}$$

Question 14

$$-\frac{1}{4} \cos(2x)$$

Question 16

$$(a) \quad -\frac{\sqrt{3}}{2}$$