Pre-Calc AB PreComp Review Trig Equations: Answers

(b)
$$x = \frac{2\pi}{3}, \frac{4\pi}{3}$$

(c)
$$x = \frac{\pi}{6}, \frac{7\pi}{6}$$

(d)
$$x = \frac{\pi}{3}, \frac{2\pi}{3}, \frac{4\pi}{3}, \frac{5\pi}{3}$$

(e)
$$x = \frac{\pi}{6}, \frac{5\pi}{6}$$

(f)
$$x = 120^{\circ}$$

(g)
$$x = 180^{\circ}$$

(h)
$$x = 60^{\circ}, 120^{\circ}, 240^{\circ}, 300^{\circ}$$

2. (a) (i)
$$x = \frac{3\pi}{8}, \frac{5\pi}{8}, \frac{11\pi}{8}, \frac{13\pi}{8}$$

(ii)
$$x = \frac{3\pi}{8}, \frac{5\pi}{8}, -\frac{3\pi}{8}, -\frac{5\pi}{8}$$

(c) (i)
$$x = -\pi$$
 (ii) No Solution

3.
$$x = \frac{\pi}{4} + \pi k$$
, $\frac{3\pi}{4} + \pi k$, where k is an integer