

Solve algebraically, identifying all solutions in the interval $[0, 2\pi)$.

$$5\sin 3x = 2 \quad [0, 2\pi)$$

$$3x = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$$

$$x = \frac{\pi}{18}, \frac{5\pi}{18}$$

$$x = \frac{\pi}{18}, \frac{5\pi}{18}, \frac{7\pi}{18}, \frac{11\pi}{18}, \frac{13\pi}{18}, \frac{17\pi}{18}$$

Use your calculator to find solutions

$$\sin 3x = \frac{2}{5} \quad [0, 2\pi)$$

$$\sin 3x = \frac{2}{5}$$

$$3x = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$$

$$x = \frac{\pi}{18}, \frac{5\pi}{18}, \frac{7\pi}{18}, \frac{11\pi}{18}$$

Use your calculator to find solutions

$$\cos 3x = 1 \quad [0, 2\pi)$$

$$3x = 0$$

$$x = 0$$

$$x = 0$$

Use your calculator to find solutions

$$2x = \frac{\pi}{3}, \frac{5\pi}{3} \quad [0, 2\pi)$$

$$x = \frac{\pi}{6}, \frac{5\pi}{6}$$

General Solution

$$4\sin 3x - 2 = 0$$

$$\sin 3x = \frac{1}{2}$$

$$3x = \frac{\pi}{6} + 2\pi n$$

$$3x = \frac{5\pi}{6} + 2\pi n$$

$$x = \frac{\pi}{18} + \frac{2\pi}{3}n$$

$$x = \frac{5\pi}{18} + \frac{2\pi}{3}n$$

Unit 5 Lesson Precalculus Tesccc Solving Algebraically

Lauren Gardner



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