

# EQUATIONS & IDENTITIES

TEXT: 7.4

LAST NAME	FIRST NAME	DATE
-----------	------------	------

1 (4 points). Solve the equation.

$$\cos(2x) = 2 - 5 \cos(x)$$

Solution set:

Solution(s) in  $[0, 2\pi]$ :

2 (4 points). Solve the equation.

$$2 \cot\left(\frac{\pi}{2} - x\right) = -1 - \tan^2(x)$$

Solution set:

Solution(s) in  $[0, 2\pi]$ :

**3** (4 points). Solve the equation.

$$4 \sin(\theta) + 2 \cos^2(\theta) - 3 = -1$$

Solution set:

Solution(s) in  $[0, 2\pi]$ :

4 (4 points). Solve the equation.

$$\cot^4(x) = 4 \csc^2(x) - 7$$

Solution set:

Solution(s) in  $[0, 2\pi]$ :