Pre-Calculus Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solving Trigonometric Equations—Solve the following equations.

1. 3cos 2x + cos x = -1 0 ≤ x ≤ 360 2. 2cos 2x + 3 = 2 0 ≤ x ≤ 360
2. 6sin2 x + 5 = 8 0 ≤ x ≤ 2 π 4. 2cos(2x + 80) = 1 0 ≤ x ≤ 180
3. 4tan 3x + 5 = 1 0 ≤ x ≤ π 6. 5tan(2x – 40) + 1 = 6 0 ≤ x ≤ 360
4. cos 2x + 5 = 4sin x 0 ≤ x ≤ 360 8. 3sin 2x – 3cos x = 0 0 ≤ x ≤ 360