

## VALENCIA COMMUNITY COLLEGE

College Trigonometry

Name:

Test 3 makeup

Date:

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**DUE ON OR BEFORE THE BEGINNING OF CLASS MEETING ON 12/03/15**

\*\*\*\*\* Show all your work for full credit \*\*\*\*\*

Find the exact solutions over the indicated intervals

1)  $\sqrt{2} \cos \alpha - 1 = 0$      $0 \leq \alpha \leq 2\pi$                       2)  $2 \cos^2 x + 3 \sin x = 0$      $0 \leq x \leq 2\pi$

3)  $2 \sin^2 x - 1 = 0$     all  $x$     4)  $2 \cos^2 x + \cos x - 1 = 0$     all  $x$

$$5) \cos 2x + \sin^2 x = 0 \quad \text{all } x$$

$$6) \cos x = \cot x \quad 0 \leq x \leq 2\pi$$