SECTION 3.5 **Math 1090 Worksheet** FALL 2009

For practise only. Not to be submitted.

1. For each of the following trigonometric equations, find all solutions such that $0 \leq x < 2\pi$.

   (a) $\dfrac{\cot^2(x)}{3} = 1$

   (b) $\sin^2(x) = \dfrac{1}{2}\sin(x)$

   (c) $\sin^2(x) = \cos(x)\sin(x)$

   (d) $2\sin^2(x) - \sin(x) - 1 = 0$

   (e) $\sec^2(x) + \tan^2(x) = 7$