

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

DEPARTMENT OF MATHEMATICS AND STATISTICS

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

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

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

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

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