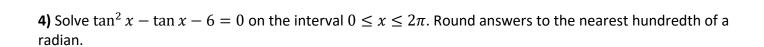
W7 – 5.4 Solve Quadratic Trigonometric Equations MHF4U

1) Solve
$$\sin^2 x - 2\sin x - 3 = 0$$
 on the interval $0 \le x \le 2\pi$

2) Solve
$$\csc^2 x - \csc x - 2 = 0$$
 on the interval $0 \le x \le 2\pi$

3) Solve
$$2\sec^2 x - \sec x - 1 = 0$$
 on the interval $0 \le x \le 2\pi$



5) Solve
$$6\cos^2 x + 5\cos x - 6 = 0$$
 on the interval $0 \le x \le 2\pi$

6) Solve
$$3\csc^2 x - 5\csc x - 2 = 0$$
 on the interval $0 \le x \le 2\pi$

7) Solve $2\tan^2 x - 5\tan x - 3 = 0$ on the interval $0 \le x \le 2\pi$

8) Solve $\cot x \csc^2 x = 2 \cot x$ on the interval $0 \le x \le 2\pi$

9) Solve for θ to the nearest hundredth, where $0 \leq \theta \leq 2\pi$

a) $3 \tan^2 \theta - 2 \tan \theta = 1$

b)
$$12\sin^2\theta + \sin\theta - 6 = 0$$

c)
$$5\cos(2\theta) - \cos\theta + 3 = 0$$