

Name: _____

Date: _____

Learning Goal 0.2**Expectations for algebra from previous years.**

1. Solve the following trigonometric equation on the specified domain for exact value(s) of θ .

a. $4 \csc x - 5 = 3, -180^\circ \leq x < 360^\circ$

b. $7 \cot \theta - 4 = 6 \cot \theta - 5, 0 \leq \theta < 4\pi$

c. $\cos^2 \theta - 1 = 0, 0^\circ \leq \theta < 360^\circ$

d. $\sin^2 \theta + \sin \theta - 2 = 0, 0 \leq \theta < 2\pi$

e. $\sec^2 x - 4 = 0, 0 \leq x < 2\pi$

f. $3 \tan^2 x - \tan x = 4, -\pi \leq x < 2\pi$

g. $4 \cos^3 x + \cos 2x = 2 \cos x$