

Handout for LessonPlan 16

Simplify the following:

$$\tan(x) \csc(x) \sec(x)$$

$$\sec(x)/\csc(x)$$

$$\sin(x) \sec(x) / \tan(x)$$

Find solutions over $[0, 360]$

$$-3.95 = \sec(-x) - 2$$

$$-9.1 = 1/\sin(-x) - 3.5$$

Simplify:

$$\csc(90^\circ - x) \sec(x)$$

$$\tan(90^\circ - x) / \sin(90^\circ - x)$$

Solve each trig equation by factoring

$$\cos^2(\theta) + 4\cos(\theta) - 5 = 0$$

$$3\sin^2(\theta) - 10\sin(\theta) = 6\sin(\theta) - 12$$