ALG III 3/25/14
Class Examples

Simplify each expression completely. Each expression simplifies to either a number or an expression involving only one trig function.

a) $\sin\theta \cdot \csc\theta$

b) $\dfrac{1-\cos^2\theta}{\sin\theta}$

c) $\csc^2\theta\left(1-\cos^2\theta\right)=$

d) $\dfrac{\sin\theta\cos\theta}{1-\cos^2\theta}=$

e) $\left(1-\sin\theta\right)\left(1+\sin\theta\right)$

f) $\cot\theta \cdot \sec\theta \cdot \sin\theta$

g) $\sin\theta\left(\csc\theta-\sin\theta\right)$

h) $\cos^2\theta\left(\sec^2\theta-1\right)$