Hmwk: pg 417 # 5bd, 9bc, 10bdf, 11bdfhjl, 16b

**Proving Trigonometric Identities: Part 2**

**More Strategies**

1. Some trigonometric identities can be factored as differences of squares as follows

1. The numerator or denominator can sometimes be turned into a difference of squares factorable expression by multiplying the top and bottom by the conjugate:

---> conjugate--->

---> conjugate --->

1. It’s always possible to convert all trigonometric components to sines and cosines:

, , ,

1. The squared trig functions sin2θ and cos2θ can be swapped easily with each other but their linear forms sinθ and cosθ cannot.

Practice

Prove the following:

a) 

b) 

c) 