

### Worksheet on manipulating Pythagorean Identities

Given the Pythagorean Identity:  $\sin^2 \theta + \cos^2 \theta = 1$

1. Use the given Pythagorean Identity to come up with the other 2 Pythagorean Identities:

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For #'s Manipulate the Pythagorean identities to give the equivalent for each of the following:

2.  $\sin^2 \theta =$

3.  $\tan^2 \theta =$

4.  $\csc^2 \theta =$

5.  $\cos^2 \theta =$

6.  $\sec^2 \theta =$

7.  $-\sin^2 \theta =$

8.  $\cot^2 \theta =$

9.  $-\cot^2 \theta =$

10.  $1 =$  (Think about it....3 different equations!)