Name:

Verifying Trig Identities with Double Angles

**Verify**

1. 
2. 
3. cos2θ + 2sin2θ=1
4. 
5. 
6. 

**Use the information given to find the exact value of sin 2θ and cos 2θ and **

1. 90˚ ≤ θ ≤ 180˚; cosθ= 
2. 270˚ ≤ θ ≤ 360˚; sinθ= 
3. 0˚ ≤ θ ≤ 90˚; sinθ= 
4. 180˚ ≤ θ ≤ 270˚; sinθ= 

**Find the exact value using a half angle formula.**

1.  12. Sin 165o

13. sin 112 ½ o 14. Tan 15o

15. cos  16. Sin 75o