Recall (Appendix D page A24-A31)

Trigonometric Identity

$\cos^2 x + \sin^2 x =$ _____.

$\cos^2 x =$ _____. $\sin^2 x =$ _____.

$\sec^2 x =$ _____. $\tan^2 x =$ _____.

Double Angle Formula (Sec 7.2 pg 480 or Appendix D pg A29)

$\cos 2x =$ _____ = _____ = _____.

Deduce the **Half Angle Formulas (Apdx. D)**:

$\cos^2 x =$ _____. $\sin^2 x =$ _____.

Derivatives (Sec 3.3 pg 193)

$\frac{d}{dx}(\sin x) =$ _____. $\frac{d}{dx}(\cos x) =$ _____.

$\frac{d}{dx}(\tan x) =$ _____. $\frac{d}{dx}(\sec x) =$ _____.

Useful Anti-Derivatives (Sec 7.2 pg 482-483)

$\int \tan x \, dx =$ _____. $\int \sec x \, dx =$ _____.