

Trigonometric Identities on Test 3

$$\cos^2(x) + \sin^2(x) = 1 \quad 1 + \tan^2(x) = \sec^2(x) \quad \cot^2(x) + 1 = \csc^2(x)$$

$$\cos(x \pm y) = \cos(x)\cos(y) \mp \sin(x)\sin(y)$$

$$\sin(x \pm y) = \sin(x)\cos(y) \pm \cos(x)\sin(y)$$

$$\tan(x \pm y) = \frac{\tan(x) \pm \tan(y)}{1 \mp \tan(x)\tan(y)}$$