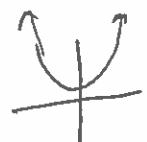


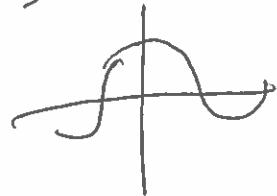
ODD/EVEN FUNCTIONSEven Function

$$f(x) = x^2$$

$$f(-x) = (-x)^2 = x^2 = f(x)$$



$$\cos(-s) = \cos(s) = .28$$



$$3x^4 + 2x^2 - 8 \quad \leftarrow \text{even}$$

$$= 3(-x)^4 + 2(-x)^2 - 8$$

$$\cos(-2x-8) = \cos(2x+8)$$

$$\cdot \cos(2x+8)$$

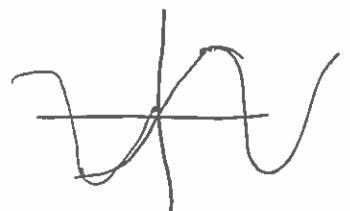
ODD Function

$$f(x) = x^3$$

$$f(-x) = (-x)^3 = -x^3 = -f(x)$$

$$\sin(-s) = -\sin(s)$$

$$8x^3 + 2x^5 + 9x^1$$



$$\sin(x+x) = \sin x \cos x + \sin x \cos x$$

Dbl

$$\textcircled{1} \sin(2x) = 2 \sin x \cos x$$

Angle

$$\textcircled{2} \cos(2x) = \cos^2 x - \sin^2 x$$

Identites

$$\textcircled{3} \tan(2x) = \frac{2 \sin x \cos x}{\cos^2 x - \sin^2 x}$$