

Cot(x) and CSC(x)  $Cd(x) = \frac{los(x)}{Sin(x)} \neq CSC(x) = \frac{1}{Sin(x)}$ Lomain Sin(x) +0 Sin(x)=0 .:  $X=n\pi$  n integer Even and odd property Even function: f(-x)=f(x) odd function: f(-x) = - f (x). Sin (-x) = - Sin(x). Therefore y=Sin(x) odd function

Symmetry with respect

CSC(-x) = \_ CSC(x). to the origin. los(-x)= los(x). Therefore y=cos(x) and y= Sec(x)

Sec(-x)= sec(x)

Symmetry with respect to y-axis

$$y = tan(x) = \frac{Sin(x)}{cas(x)}$$

$$tan(-x) = \frac{Sin(-x)}{cas(-x)} = \frac{-Sin(x)}{cas(x)} = -tan(x)$$

$$tan(-x) = -tan(x)$$

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$$thue fore  $y = tan(x)$ 

$$cot(-x) = -cat(x)$$

$$uith respect to the origin$$

$$examples: Sin(-TV) = -Sin(TV) = -\frac{1}{2}$$

$$cos(-TV_4) = cos(TV_4) = \frac{1}{2}$$

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$$Sin(0) = \frac{1}{2}$$

$$tan(0) = \frac{1$$$$

