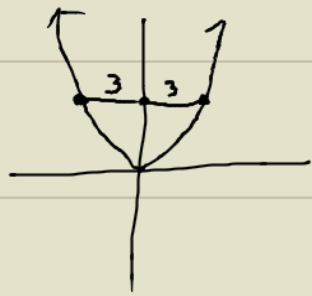


EVEN FUNCTION

$$y = x^2$$



SYMMETRIC TO
Y-AXIS

ODD FUNCTION

$$y = x^3$$



SYMMETRIC TO
ORIGIN



#7 $y = 3x^2 + 1$

PLUG $-x$ IN FOR x AND
REWRITE SO IT LOOKS LIKE

ORIG. FUNCTION
THEN ITS EVEN

$$y = 3(-x)^2 + 1$$

$$y = 3x^2 + 1$$

EVEN

#8 $y = x^7 - x$

PLUG $-x$ IN FOR x , $-y$ IN FOR
 y AND SEE IF WE CAN GET
ORIG. FUNCTION, THEN IT'S ODD

$$-y = (-x)^7 - (-x)$$

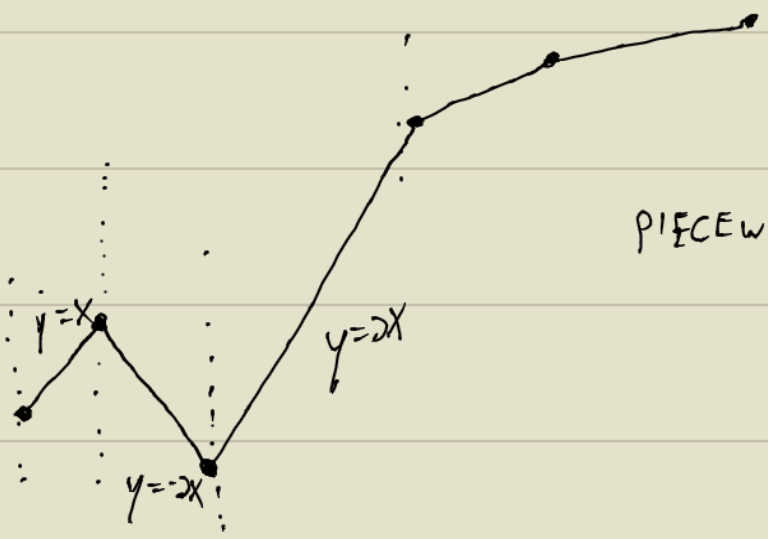
$$-y = -x^7 + x$$

$$-y = -(x^7 - x)$$

$$\frac{-y}{-1} = \frac{-(x^7 - x)}{-1}$$

$$y = x^7 - x$$

ODD



PIECEWISE FUNCTIONS