**INVERSE FUNCTIONS –** switch x & y 🡪 solve for y

1. Given $f(x) = -3x + 1$. Find **the inverse** function.
2. Determine the inverse of $f\left(x\right)=\frac{2}{3}x^{3}+1$.
3. Determine the inverse of $f\left(x\right)=-\frac{2}{3}x-9$

**ODD/EVEN/NEITHER FUNCTIONS –** replace all “x” with “-x” 🡪 even=same, odd=negation

1. Classify the **symmetry** of each of the following as **even, odd, or neither**. Explain your answer.

A. $f\left(x\right)= -3x^{2}+6x-2$ B. $h\left(x\right)=2x^{3}+3x-10$

1. Classify the symmetry of $f\left(x\right)=-2x^{9}+4x^{3}-8x+1 $as even, odd, or neither. Justify your answer.

**AVERAGE RATE OF CHANGE –** slope

1. Given $g\left(x\right)= 2x^{2}-x+8$, find the average rate of change on the interval [-2, 3].



