Happy Monday, October 24!
Do Now:
What is the end behavior of the following?


$$
f(x)=3 x^{\odot}-2 x+1
$$

(Hint, think "to the right" and "to the left")


$$
\begin{aligned}
& y=6 x^{7}-5 x^{2}+1 \\
& \quad L^{L} \quad R \\
& \text { Down up } \\
& y=-2 x^{4}+6 x-6
\end{aligned}
$$

Homework Summary and Questions:


$$
y=-3 x^{10}+7 x^{2}-x+3
$$

Formative Quiz on Wednesday
However, if you receive a 4 , you do not need to take the summative next Monday.

On the quiz, you will sketch graphs based on their end behavior, zeros, and give domain and range.

## NO CALCULATORS.

So what don't we know?
dominant

shootingrangl


$$
\begin{array}{ll}
\begin{array}{l}
\text { Domain } \rightarrow \\
X-a x i s \\
(-\infty, \infty)
\end{array} & \\
-3 \leq x \leq 2
\end{array}
$$

$$
y=2 x+1
$$



How do we read inequalities?


Domain refers to the x -axis


Domain:

$$
\begin{aligned}
& \text { All reals } \\
& (-\infty, \infty)
\end{aligned}
$$



Domain:
All real numbers except 7

Range refers to the x -axis


Range:

$$
x \geq-3
$$



Range:
All reals
except zero


Domain:

$$
-1 \leq x \leq 7
$$

Range:

$$
-9 \leq x \leq-1
$$



## Matching Activity

Use the graphs provided and the descriptions of the domain/range to match the graphs.

## Exit Slip:

Domain refers to which axis?
Range refers to which axis?

Homework: Finish Matching Activity

