CLASS AGENDA

- Synthetic Division
- Small Group Practice
- Break
- Small Group Practice
- Study Island
- Closure

SYNTHETIC DIVISION

- $P(x) = 2x^4 - 15x^2 - 10x + 5$
- *Evaluate: x - 3*

SYNTHETIC DIVISION

- $P(x) = x^3 + 5x^2 + 5x - 2$
- $Evaluate\ x + 2$

ADDITIONAL ROOTS

- $P(x) = x^3 + 5x^2 + 5x - 2$
- $Evaluate\ x + 2$

- Take what's left
- $1 \quad 3 \quad -1$

- Write as a Polynomial Function
- $x^2 + 3x\ - 1$

- Factor:

PRACTICE

- Find the remainder when $x^5 - 2x^3 + x^2 - 4$ is divided by:

1. x – 1
2. x + 1
3. x – 2
4. x + 1

PRACTICE

- Find the remainder when $x^3 - 3x^2 + 5$ is divided by:

1. x – 2
2. x + 2
3. x – 3
4. x + 3

PRACTICE

- Is x+1 a factor of $P(x) = x^3 + 3x^2 + x - 1$?
- If so, are there others and what are they?

BREAK

SMALL GROUP PRACTICE

- Complete the worksheet

CLOSURE

CLOSURE

- How can you find the roots of a polynomial function?