

Monday 12/2/19

1. Grab Notes/Calc.
2. Update Calendar
3. Factor Thm. Notes Cont'd.
4. HW

9th & American Literature: Dec 2			9th & American Literature: Dec 3-4		
Block	Time	Minutes	Block	Time	Minutes
4th	8:20-10:15	115	4th	8:20-10:10	110
2nd	10:21-12:16	115	2nd	10:16-12:06	110
3rd	12:22-2:48	146	3rd	12:11-2:31	140
A lunch- TESTERS GO TO A LUNCH	12:22-12:47	25	A lunch- TESTERS GO TO A LUNCH	12:11-12:36	25
Test runs	12:53 -2:48	115	Test runs	12:41-2:31	110
B lunch	1:05-1:30	25	B lunch	12:50-1:15	25
C lunch	1:45-2:10	25	C lunch	1:25-1:50	25
D lunch	2:23-2:48	25	D lunch	2:06:-2:31	25
1st	2:54--3:30	36	1st	2:37--3:30	53

Topic: Factor Theorem and Intercepts Cont'd.

Date: _____

Verify and Find Remaining Intercepts

$x = 2$
 $x - 2$
 $x = -1$
 $x + 1$

Prove the zeros of the polynomial with synthetic division. Then use your answer to find the remaining intercept(s).

$f(x) = x^3 - 6x^2 + 3x + 10; 2, -1, 5$

$$\begin{array}{r|rrrr} 2 & 1 & -6 & 3 & 10 \\ & & 2 & -8 & -10 \\ \hline & 1 & -4 & -5 & 0 \\ & x & & c & \end{array}$$

$x - 5 = 0$
 $x = 5$

$f(x) = (x - 2)(x + 1)(x - 5)$

$f(x) = 2x^3 - 9x^2 + 7x + 6; 3, 2$

$$\begin{array}{r|rrrr} 3 & 2 & -9 & 7 & 6 \\ & & 6 & -9 & -6 \\ \hline & 2 & -3 & -2 & 0 \\ & x & & c & \end{array}$$

$2x + 1 = 0$
 $x = -\frac{1}{2}$

$x = -\frac{1}{2}$

$f(x) = (x - 3)(x - 2)(2x + 1)$

$x = 3$
 $x - 3$
 $x = 2$
 $x - 2$
 $2x = -\frac{1}{2}$
 $2x = -1$
 $2x + 1 = 0$

You Try!

$x = 1$
 $x - 1$
 $x = 0$

$f(x) = 3x^3 - x^2 - 2x; 1, 0$

$$\begin{array}{r|rrrr} 1 & 3 & -1 & -2 & 0 \\ & & 3 & 2 & 0 \\ \hline & 3 & 2 & 0 & 0 \\ & x & & c & \end{array}$$

$3x + 2 = 0$

$x = -\frac{2}{3}$

$f(x) = x(x - 1)(3x + 2)$

Summary

Summarize the lesson in your own words