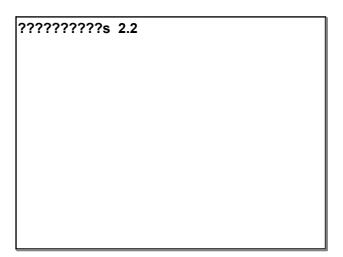
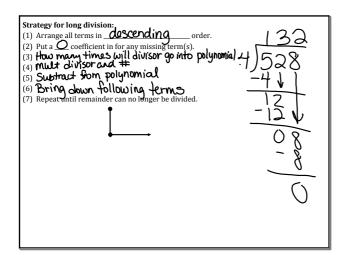
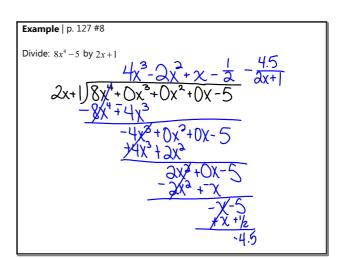
Precalculus Section What questions do you have (due Thursday)?	
36 36 36 36	(36-2x)(36-2x)X X (36-2x) <sup>2</sup>

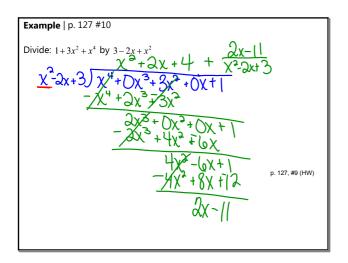


Jan 16-8:44 AM Jan 14-10:11 AM





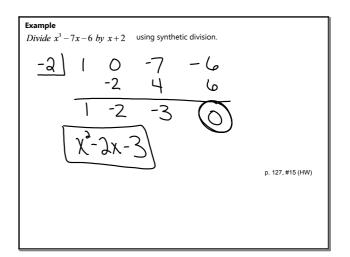
Feb 14-10:46 AM Jan 16-8:56 AM



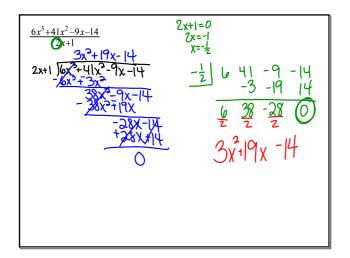
Jan 16-8:56 AM

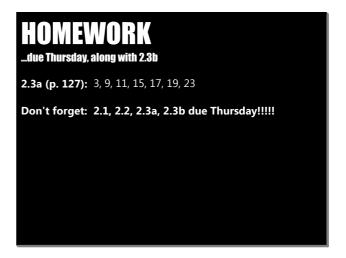
Feb 14-10:51 AM

or any missing term.  (2) Write C for the divisor x-c. To the right write the CORFICIENTS of the dividend.  3) Bring down the IST CORFICIENT to the bottom row.  (4) NOUT by c and put in nutricolumn.  (5) add going down  (6) Keep executing Steps 4 & 5 until you can't go anymore.  2) Since we are dividing by a linear factor (x-c), what will our remainder look like?  A: remainder  X-C.	(1) Arrange the p	olynomial in descending order, with a coefficient
itividend.  [3] Bring down the St Coefficient to the bottom row.  [4] Nouth by c and put in numb column.  [5] add going down.  [6] Keep executing Steps 4 & 5 until you can't go anymore.  [9] Since we are dividing by a linear factor (x-c), what will our remainder look like?	for any missing te	m. 0
(3) Bring down the 15t Coefficient to the bottom row. (4) Mult by a and put in numb column (5) and going down (6) Keep executing Steps 4 & 5 until you can't go anymore. (2) Since we are dividing by a linear factor (x-c), what will our remainder look like?	(2) Write C for	the divisor x-c. To the right write the <b>CORYLICIENTS</b> of the
(4) NOUT by c and put in NOUT COLUMN. (5) Odd going down (6) Keep executing Steps 4 & 5 until you can't go anymore. (2) Since we are dividing by a linear factor (x-c), what will our remainder look like?		1c+ c10: +
(5) and going down (6) Keep executing Steps 4 & 5 until you can't go anymore. (7) Since we are dividing by a linear factor (x-c), what will our remainder look like?	(3) Bring down th	e 15T Colfiction to the bottom row.
<ul> <li>(6) Keep executing Steps 4 &amp; 5 until you can't go anymore.</li> <li>Q: Since we are dividing by a linear factor (x-c), what will our remainder look like?</li> </ul>		
Q: Since we are dividing by a linear factor (x-c), what will our remainder look like?	(5) choose going	gowi
	<li>(6) Keep executin</li>	g Steps 4 & 5 until you can't go anymore.
	O. Singa wa ara di	uiding by a linear factor (v. a) what will our remainder look like?



Feb 14-10:52 AM Feb 14-10:53 AM





Jan 16-9:03 AM

Jan 16-9:03 AM

## Here's what's happening the rest of this week...

Today: Finish 2.3

Tomorrow: Review for Quiz

**Friday:** Quiz (2.1-2.3)



Questions from homework (2.3a)?

Jan 16-9:08 AM Jan 17-2:58 PM

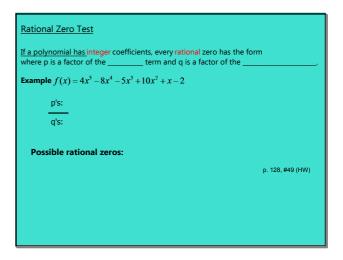
<b>TRUE or FALSE:</b> 6 is a factor of 12.
Why or why not?
**A polynomial $f(x)$ has a <b>factor</b> $(x-k)$ if and only if $k$ is a zero of $f(x)$ [ $f(k)=0$ ].
If we want to show that (x-2) is a factor of f(x), we can show that is a
If want to show that x=-5 is a zero of f(x), we can show that is a

<b>Example</b>   p. 128 #40	
a) Show $x=-4$ is a solution to $x^2 - 28x - 48 = 0$ .	
b) Use the result to factor the polynomial comp	letely.
c) List all the real zeros of the function.	
	p. 128, #39 (HW)

Jan 17-2:59 PM

Jan 17-3:05 PM

```
Example | p. 128 #44
a) Verify (x+3) is a factor of f(x)=3x³ + 2x² -19x + 6
b) Write the complete factorization of f(x).
c) List all real zeros of f(x).
```



Jan 17-3:05 PM Jan 17-3:33 PM

Try #53 (HW). You can narrow down your real zeros by using the Rational Zero Test...  $\label{eq:constraint} % \begin{array}{c} \text{Try } \text{$H$} = \text{$H$} \\ \text{$H$} = \text{$H$ 

$$f(z)=z^4-z^3-2z-4$$

HOMEWORK
...we <3 algebra.

2.3 (p. 127)
{Part a (Tuesday's): 3, 9, 11, 15, 17, 19, 23}
Part b (today's): 39, 41, 43, 45, 49, 53, 57, 61

Jan 17-3:37 PM

Jan 16-9:03 AM

	Date	Section	Title	Assignment	Topics	
Day	Date	Section	nue	Assignment		
м	01/07	9.5	Parametric Equations	p704 1-5 odd, 11-21 odd, 35, 36, 39, 49	x&y as a function of t	
				eliminate the pa	eliminate the parameter	
т	01/08	9.5	Parametric Equations	Parametric Packet Due 1/11	Bug Races!	
w	01/09	9.5	Work Day	Work Day	Work Day	
		9.6	Polar Coordinates	p711 1-17 eoo, 21, 23, 31, 33, 37, 39, 43-49	r and theta; plot points	
Th	01/10	9.6	Polar Coordinates	odd, 61, 65, 69	conversion of coord, and eq.	
				p720 13, 15, 16, 19, 21, 23,		
F	01/11	9.7	Graphs of Polar Eq	24, 25, 26, 37, 38, 53, 54	table of values; symm.; D&R	
1				Pass out Polar Art Project Due 1/15	zeros & max; special graphs	
				-733 CO OF OC OO AND AND AND		
м	01/14	9.5-9.7	Review	p732 69,85,86,99,105,113,115,		
	$\vdash$			117,125,131,133,137,139,143		
T	01/15	9.5-9.7	Review	Go over review assignment		
w	01/16	9.5-9.7	Test	Parametric & Polar Equations		
Th	01/17	2.2	Polynomial Functions	p112 1-8, 15, 17, 23, 29, 37, 39, 41, 51, 67, 69, 73, 91; p100 29-33 (then find where f(x)<0) and 59	Continuous; Parent functions; Transf., Leading coeff., quad max	
F	01/18	2.3	Real Zeros	p127 3, 9, 11, 15, 17, 19, 23	Long Div., Synth. Div.	