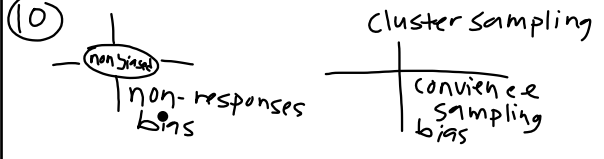


Finding Zeros Quiz
 Calendar Math Review
 ACT Prep Questions
 Calendar Math Quiz Next Time
 2.1 Finding Zeros Questions
 2.2 End Behaviors and Multiplicities of Zeros
 Homework 2.2 End Behaviors Worksheet

Sep 16-8:15 AM

Calendar Math

(4) Systematic Sampling.

(10) 

Sep 16-8:23 AM

ACT Prep 1

(20) $\frac{4x}{9} = \frac{y}{144}$

z^2 $9y = \frac{4 \cdot 144}{9}$
 $y = 64$

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(17)

3 2 1
 9 blue green
 6 blue
 3 green
 $9 + 6 + 3$
 (18)

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(19) $72 = 3 \text{ days}$
 $12(72) = 16(x)$
 $\frac{864}{16} = x$ $54 = x$
 $72 - 54 = 18$

Sep 16-8:53 AM

Homework Questions

(21) $3 + 81x^3$
 $3(1 + \sqrt[3]{27}x^3)$
 $3(1 + 3x)(1 - 3x + 9x^2)$

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24 $20x^2 + 38x + 12$
 $2(10x^2 + 19x + 6)$
 ~~$\begin{matrix} 6 & 0 \\ 15 & 4 \\ & 19 \end{matrix}$~~ $2(10x+5)(x+4)$
 $2(2x+3)(5x+2)$

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19) Zeros: $-3, -1, 4$ $f(2)=10$
 $(x+3)(x+1)(x-4)$

	x	1	x^2	$4x$	3
x	x^2	x	x^3	$4x^2$	$3x$
3	$3x$	3	$-4x^2$	$-16x$	-12

 $x^2 + 4x + 3$ $x^3 - 3x^2 - 12$
 $f(2)=10$
 $f(2)=(2)^3 - 13(2) - 12$
 $= 8 - 26 - 12 = 8 - 38 = -30$
 $f(2)=10$
 $a \frac{-30}{-30} = -10$ $f(2) = -1/3(-30) = 10$
 $a = -1/3$ $f(x) = -1/3(x^3 - 3x^2 - 12)$

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14) $f(x) = 24x^4 - 10x^3 - 75x^2 - 5x + 6$
 $\{-1.5, -.33, .25, 2\}$

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2.2 End Behavior and Multiplicities of Zeros
End Behavior:
 The end behavior of a polynomial function is the behavior of the graph of $f(x)$ as x approaches positive infinity or negative infinity. The degree and the leading coefficient of a polynomial function determine the end behavior of the graph.

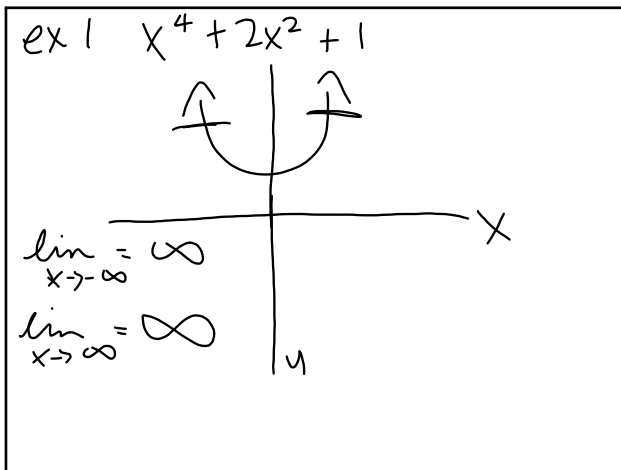
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Odd exponents:
 x^3 x x^5
 positive (match)
 $\lim_{x \rightarrow \infty} f(x) = \infty$
 $\lim_{x \rightarrow -\infty} f(x) = -\infty$
 negative (opposite)
 $\lim_{x \rightarrow \infty} f(x) = -\infty$
 $\lim_{x \rightarrow -\infty} f(x) = \infty$

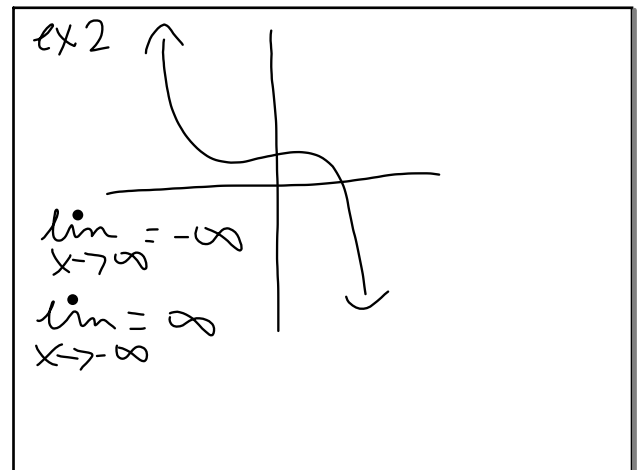
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Even exponents:
 x^2 x^4 x^6
 positive
 $\lim_{x \rightarrow \infty} f(x) = \infty$
 $\lim_{x \rightarrow -\infty} f(x) = \infty$
 negative
 $\lim_{x \rightarrow \infty} f(x) = -\infty$
 $\lim_{x \rightarrow -\infty} f(x) = -\infty$

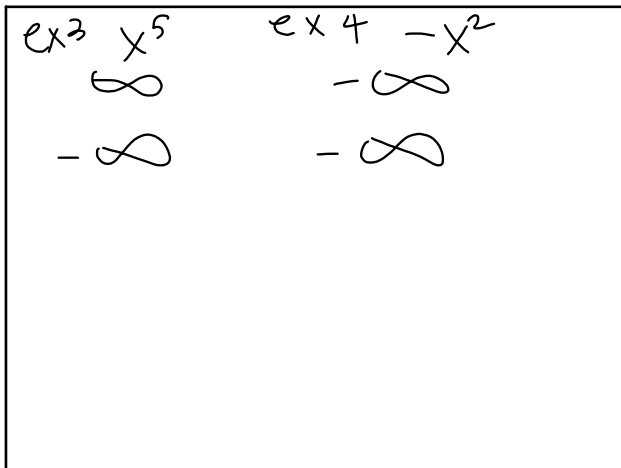
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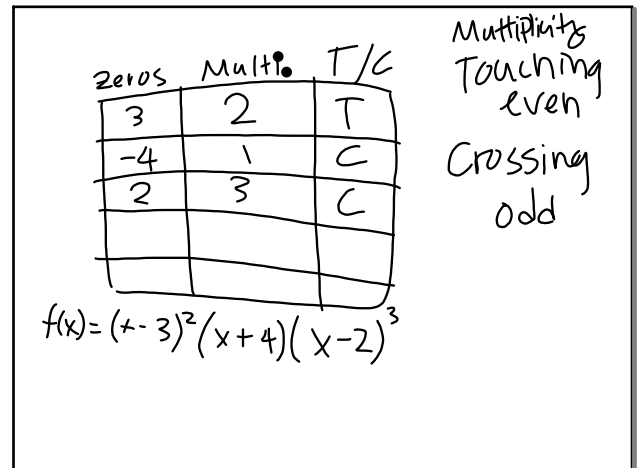
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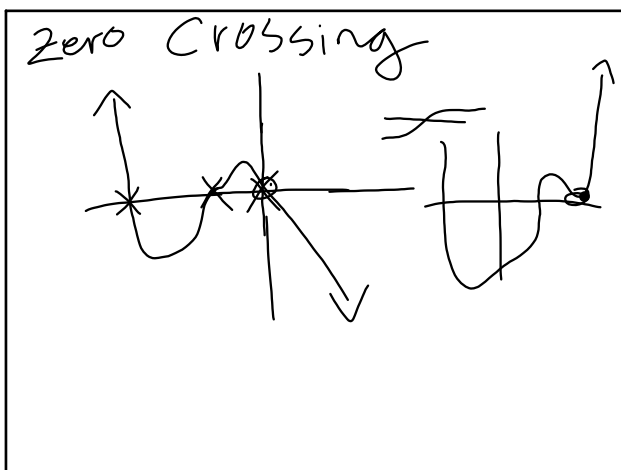
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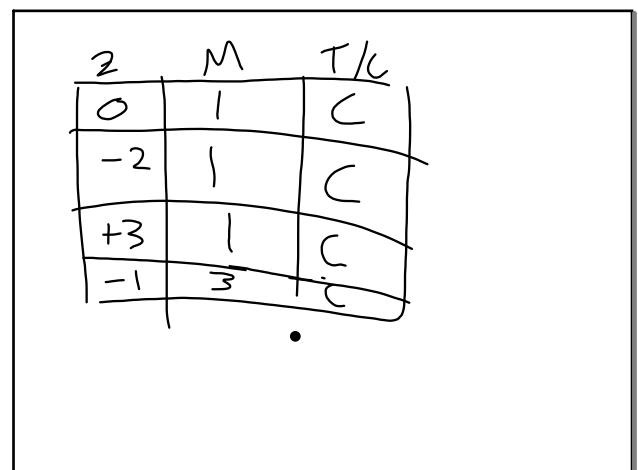
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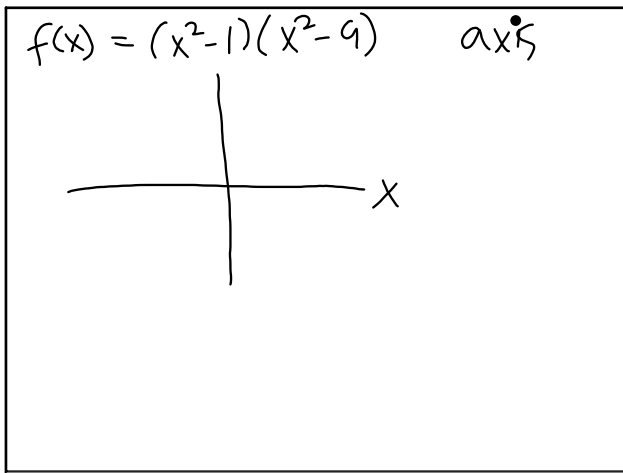
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Sep 16-9:46 AM



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