

PRECALCULUS UNIT 2 CHEAT SHEET

Long/Synthetic Division

$$x = 2 \pm \sqrt{\frac{2x^2 - 3x + 4}{2x - 3}}$$

$$x + 2 \sqrt{\frac{2x^3 - 3x^2 + 4x + 5}{2x^3}}$$

$$-3x + 2\sqrt{2x^3 - 3x^2 + 4x + 5} \\ - 5(2x^3 + 4x^2).$$

$$\begin{aligned} -2x^2 + 4x \\ 2x^2 = 2x \end{aligned}$$

$$\frac{x^2 + 22}{x^2 + 22} \cdot \frac{22x^2 - 38x^2 + 48x + 25}{-2x^2 + 48x^2}$$

$$= \frac{-7x^2 + 4x}{-7x^2 + 14x}$$

$$\begin{array}{r} 18x + 5 \\ 2x^2 - 7x + 18 \end{array}$$

$$\frac{x^2 + 2\sqrt{2}x^2 - 3x^2 + 4x + 5}{x^2 + 4x + 5}$$

$$= \frac{-7x^2 + 14x}{18x + 5}$$

$$\frac{-1.6x + 36}{-32}$$

1. Find possible ratio

Set up the division problems.

 $2x^3$ divided by x is $2x^2$.
$$M(x) = x^2 + 2 \ln x - 2x^3$$

Abstract

Bring down the next term,
 $-7x^2$ divided by x is $-7x$

Multiply $x + 2$ by $-7x$.
Subtract. Bring down the next term.

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Multiply $x + 2$ by 18.
Subtract.

REMARKS. *Characterization of H is as usual with \mathcal{A}^{H^*} in the role of \mathcal{A} , and \mathcal{A}^H in the role of \mathcal{B} , characterizing how the \mathcal{A}^{H^*} .*



11. *don't do anything, the data is sufficient*

It is not a root: there is a remainder of 12. If the remainder is zero, you have a root.

Zeros of Polynomials

1. Find possible rational zeros
2. Synthetic division until depressed polynomial
3. Keep going until x^2
4. Factor
5. Done ☺

Example: Finding Zeros of a Polynomial Function (continued)

Find all zeros of $f(x) = x^3 + x^2 - 5x - 2$

Possible rational zeros are 1, -1, 2, and -2. We will use synthetic division to test the possible rational zeros.

$$\begin{array}{rrrr} \underline{-2} + 1 & +1 & -5 & -2 \\ -2 & +2 & +6 & \\ \hline 1 & -1 & -3 & -4 \end{array} \qquad \begin{array}{rrrr} \underline{-1} + 1 & +1 & -5 & -2 \\ & -1 & 0 & 5 \\ \hline 1 & 0 & -5 & 3 \end{array}$$

Neither -2 nor -1 is a zero. We continue testing possible rational zeros.

Polynomial Inequalities

Summary

1. Get everything to one side
2. Factor
3. Get your roots
4. Sign chart
5. Test intervals
6. Finish solve

ex $-x^2 - 8x - 15 \leq 0$

$-x^2 - 8x - 15 = 0$

$-1(x^2 + 8x + 15) = 0$

$(x+3)(x+5) = 0$

$x+3=0 \quad x+5=0$

$x=-3 \quad x=-5$

$-100 - 8(-10) - 15 \leq 0$
 $-100 + 80 - 15 \leq 0$
 $-35 \leq 0$
T

$-1(-4)^2 - 8(-4) - 15 \leq 0$
 $-16 + 32 - 15 \leq 0$
 $1 \leq 0$
F

$-0^2 - 8(0) - 15 \leq 0$
 $-15 \leq 0$
T

Number line: $\leftarrow (-10) \quad -5 \quad -3 \quad 0 \rightarrow$

$[-10, -5] \cup [-3, \infty)$

Graphs And Factors Precalculus Mathematics Unit

Lesson 2

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