

PRECALCULUS UNIT 2 CHEAT SHEET

Long/Synthetic Division

$$x + 2 \overline{) 2x^3 - 3x^2 + 4x + 5}$$

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Set up the division problem.

$2x^3$ divided by x is $2x^2$.

Multiply $x + 2$ by $2x^2$.

Subtract.

Bring down the next term.

$-7x^2$ divided by x is $-7x$.

Multiply $x + 2$ by $-7x$.

Subtract. Bring down the next terms.

$18x$ divided by x is 18 .

Multiply $x + 2$ by 18 .

Subtract.

EXAMPLE: determine if 1 is a root of $x^2 + 5x + 6 = 0$
i.e., is $x^2 + 5x + 6$ divisible by $(x - 1)$?

$$1 \overline{) 1 \quad 5 \quad 6}$$

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1 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.

$$\begin{array}{r|rrrr} -2 & 1 & 1 & -5 & -2 \\ & & -2 & +2 & +6 \\ \hline & 1 & -1 & -3 & +4 \end{array} \quad \begin{array}{r|rrrr} -1 & 1 & 1 & -5 & -2 \\ & & -1 & 0 & 5 \\ \hline & 1 & 0 & -5 & 3 \end{array}$$

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

REASON

Polynomial Inequalities

Steps:

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

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

$$\begin{aligned} -x^2 - 8x - 15 &= 0 \\ -1(x^2 + 8x + 15) &= 0 \\ (x+3)(x+5) &= 0 \\ x+3=0 & \quad x+5=0 \\ x=-3 & \quad x=-5 \end{aligned}$$

Sign chart:

$$\begin{array}{c} -100 + 80 - 15 \leq 0 \\ -35 \leq 0 \\ -100 + 80 - 15 \leq 0 \\ -16 + 32 - 15 \leq 0 \\ 1 \leq 0 \\ \text{F} \\ -0^2 - 8(0) - 15 \leq 0 \\ -15 \leq 0 \\ \text{T} \end{array}$$

Number line:

$$\begin{array}{c} \leftarrow \text{---} (-10) \quad \text{---} (-5) \quad \text{---} (-3) \quad \text{---} (0) \text{---} \rightarrow \\ \text{---} (-\infty, -5] \quad \cup \quad [-3, \infty) \end{array}$$

Name That Function Unit 2 Lesson 1 Precalculus

JE Gale



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Pre-Calculus, Grades 6 - 8 Sadler, 2010-08-06 Sharpen students skills and enhance their understanding using Pre Calculus for grades 6 and up This 78 page book includes lessons in algebra linear functions and equations linear inequality trigonometry analytic geometry graphical analysis and sequences and series Each lesson begins with the rules followed by exercises and the book includes reproducibles and an answer key **Eureka Math Geometry Study Guide** Great Minds, 2016-08 The team of teachers and mathematicians who created Eureka Math believe that it s not enough for students to know the process for solving a problem they need to know why that process works That s why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We re here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more

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