

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 $f(x) = 2x^3 + 5x^2 - 7x + 6$.
i.e., is $f(1) = 0$? Is $x - 1$ a factor of $f(x)$?

$$1 \overline{) 2 \quad 5 \quad -7 \quad 6}$$

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

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

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

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

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

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

Sign chart:

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

Name That Function Unit 2 Lesson 1 Precalculus

Kathleen Armour



Name That Function Unit 2 Lesson 1 Precalculus:

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and other elementary functions leading into the study of calculus Topics include rational radical and piece wise functions Trigonometric and Inverse Trigonometry functions graphing analytic trigonometry Applications of Trigonometry and Limits

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