

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

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

Sign chart:

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

Number line:

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

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D Siedentop



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