ABSOLUTE VALUE AND PIECEWISE FUNCTIONS

In order to remove the absolute value sign from a function you must:

- 1. Find the zeroes of the expression inside of the absolute value.
- 2. Make sign chart of the expression inside the absolute value.
- 3. Rewrite the equation without the absolute value as a piecewise function. For each interval where the expression is positive we can write that interval by just dropping the absolute value. For each interval that is negative we must take the opposite sign.





Problem Set VII

Rewrite the following equation without using absolute value. Be sure to show your work, including a sign chart:

1. f(x) = -5x + 15

2.
$$f(x) = |(x+2)(x-4)|$$

3.
$$f(x) = |7x - 5| + 3$$

- 4. $f(x) = |2x^2 + x 3|$
- 5. $f(x) = |5x^2 + 13x 6| 2$

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