Key

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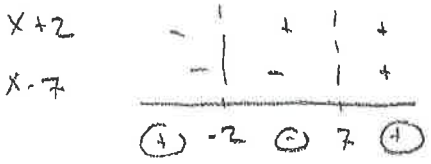
Math 4 - Number Line Analysis Review (Pre - U7 L1 I4)
Use NLA to solve each of the following. Use correct notation!

1. $(x+2)(x-7) \leq 0$



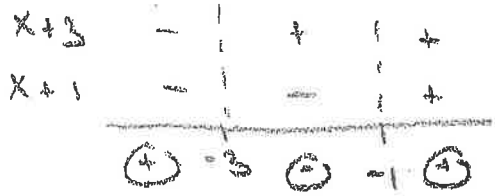
$-2 \leq x \leq 7$

2. $x^2(3x-1)(x+5) > 0$

$x < -5$ or $x > \frac{1}{3}$

3. $x^2+4x+3 < 0$

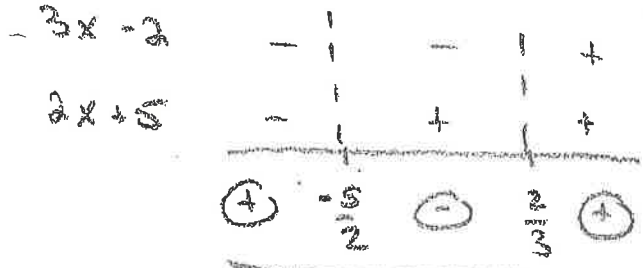
$(x+3)(x+1) < 0$



$-3 < x < -1$

4. $6x^2+11x-10 \geq 0$

$(3x-2)(2x+5) \geq 0$

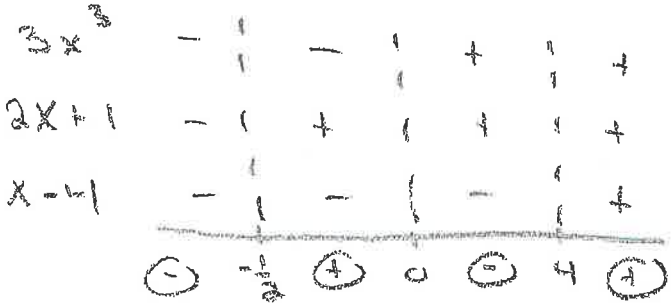


$x \leq -\frac{5}{2}$ or $x \geq \frac{2}{3}$

5. $6x^5-21x^4-12x^3 < 0$

$3x^3(2x^2-7x-4) < 0$

$3x^3(2x+1)(x-4) < 0$



$x < -\frac{1}{2}$ or $0 < x < 4$

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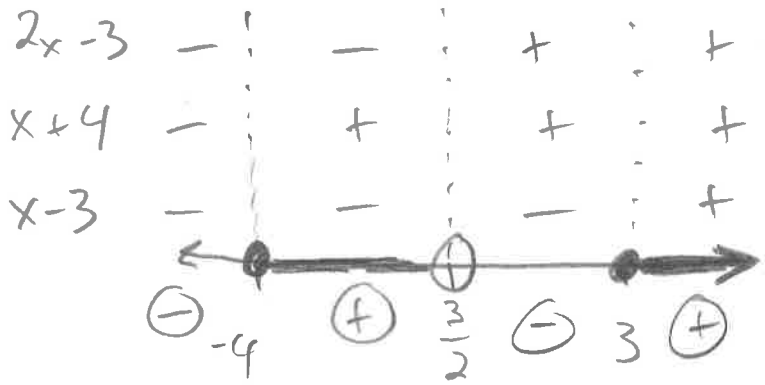
6.) $\dfrac{2x^2+5x-12}{x-3} \geq 0$

$\dfrac{(2x-3)(x+4)}{x-3} \geq 0$



$-4 \leq x < \frac{3}{2}$ or $x \geq 3$

$[-4, \frac{3}{2}) \cup [3, \infty)$

either answer is good