

Unit 5-8: Quadratic Inequalities

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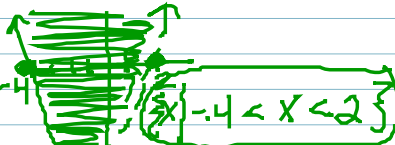
EX #1 $y > x^2 + 2x + 1$

$y = x^2 + 2x + 1$
 $0 > x^2 + 2x + 1$
 $0 > 1$



EX #2: $x^2 + 2x - 8 < 0$

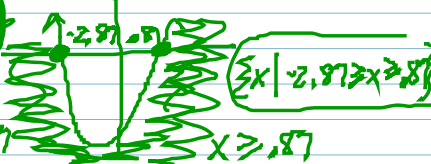
$y = x^2 + 2x - 8$
 $y > x^2 + 2x - 8$



EX #3: $2x^2 + 4x - 5 \geq 0$

$y = 2x^2 + 4x - 5$

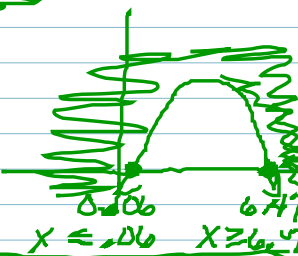
$x > -4$ $x < 2$



EX #4: $h(t) = -4.9t^2 + 32t + 1.2$

$h(t) \leq 3$
 $-4.9t^2 + 32t + 1.2 \leq 3$

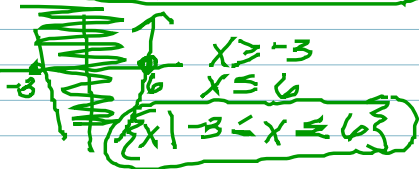
$-4.9t^2 + 32t - 1.8 \leq 0$
 $y \geq -4.9t^2 + 32t - 1.8$



EX #5: $x^2 - 3x \leq 18$

$x^2 - 3x - 18 \leq 0$
 $y \geq x^2 - 3x - 18$

$x \leq 0.06$ $x \geq 6.47$
 ${x | 0.06 \geq x \geq 6.47}$

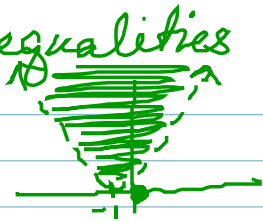


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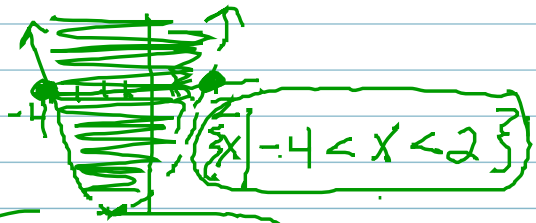
EX #1 $y > x^2 + 2x + 1$

$y = x^2 + 2x + 1$
 $0 > x^2 + 2x + 1$
 $0 < 1$



EX #2: $x^2 + 2x - 8 < 0$

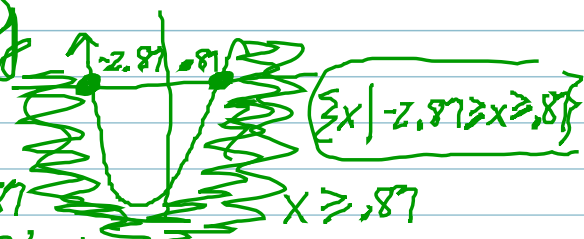
$y = x^2 + 2x - 8$
 $y > x^2 + 2x - 8$



$x > -4$ $x < 2$

EX #3: $2x^2 + 4x - 5 \geq 0$

$y \leq 2x^2 + 4x - 5$



$x \leq -2.87$ $x \geq .87$

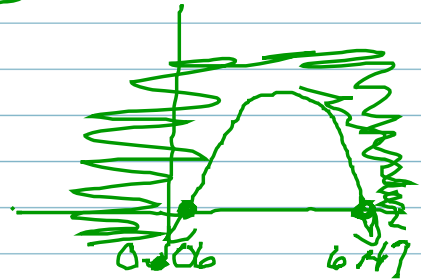
EX #4: $h(t) = -4.9t^2 + 32t + 1.2$

$h(t) \leq 3$

$-4.9t^2 + 32t + 1.2 \leq 3$

$-4.9t^2 + 32t - 1.8 \leq 0$

$y \geq -4.9t^2 + 32t - 1.8$

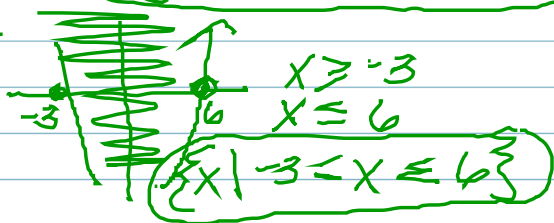


$x \leq .06$ $x \geq 6.47$

EX #5: $x^2 - 3x \leq 18$

$x^2 - 3x - 18 \leq 0$

$y \geq x^2 - 3x - 18$



$x \geq -3$

$x \leq 6$

$\{x | -3 \leq x \leq 6\}$