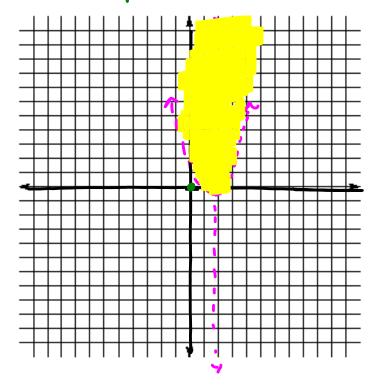
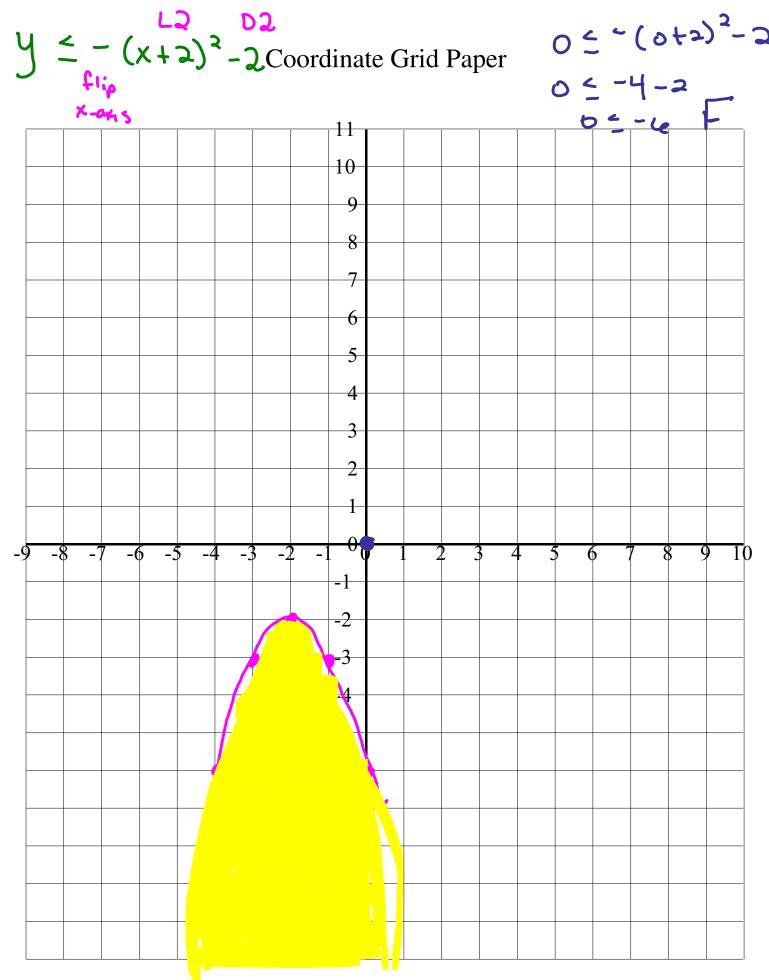
SOLVING QUADRATIC INEQUALITIES

Objective: To solve quadratic inequalities 1) by graphing and 2) algebraically (using sign analysis).



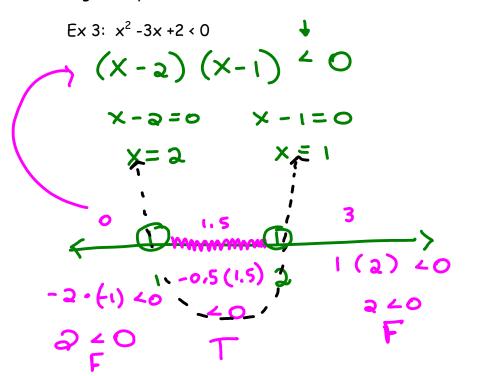
 $X = \frac{-b}{2a} = \frac{-(-3)}{3(1)} = \left(\frac{3}{2}, -\frac{1}{4}\right)$

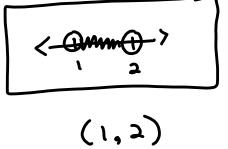
$$(2,0)$$
 $(3,2)$



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Sign Analysis





$$Ex 4: x^{2} + x^{2}$$

$$X^{2} + x - y \leq 0$$

$$X = -y \qquad (x - 1) \leq 0$$

$$X = -y \qquad x = 1$$

$$(-1)(-4) - y \qquad (2)(-1) \leq 0 \qquad (4)(1)$$

$$4 \leq 0 \qquad T \qquad 4 \leq 0$$

You try: $x^2 - x - 12 > 0$

