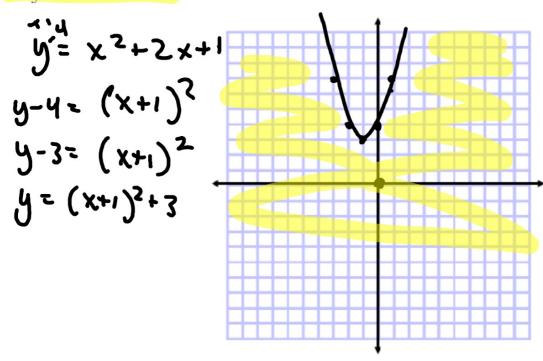
Algebra 2 4.8
Graph quadratic inequalities (functions)
Solve quadratic inequalities (equations) graphically
Solve quadratic inequalities (equations) algebraically
graph
solve
related function
vertex form
factored form

whiteboards

Quiz Fri. 4.7-4.8

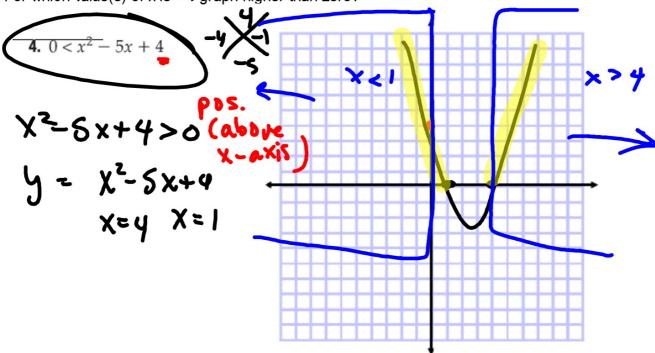
 $0 \le 0 + 0 + 4$ Graph each inequality.

1A. $y \le x^2 + 2x + 4$

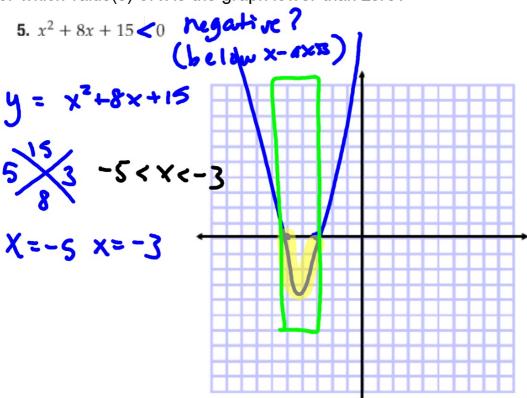


Solve graphically $y = (x-k)^2 + k$

We need to know crossing points...how can we find them? For which value(s) of x is the graph higher than zero?



For which value(s) of x is the graph lower than zero?



Solve algebraically (another method): Solve related equation

(DIMdes number line into zones)
Test a point from each zone

Answers are the same as if solved graphically

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Solve each inequality algebraically.

5A.
$$x^2 + 5x < -6$$

$$x^{2}+5y=-6$$

$$x^{2}+5x+6=0$$

