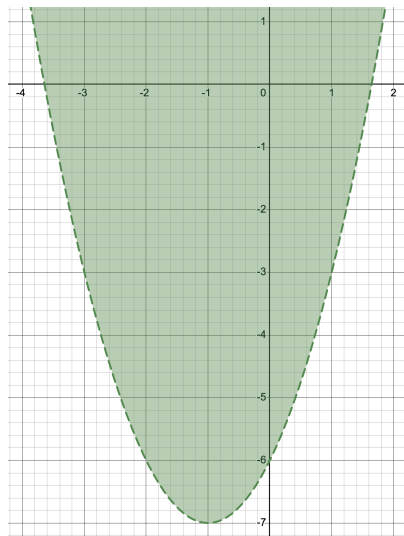


Name: _____

Finding the Equations for Quadratic Inequalities in Two Variables

Fill in the information written in the boxes:



Vertex:

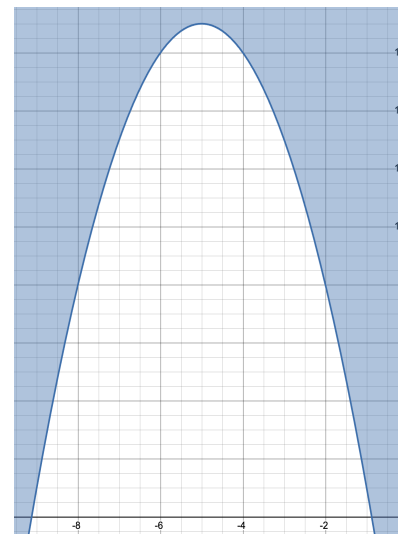
Vertical stretch:

Quadratic equation of curve:

Inequality symbol: $<$ $>$ \leq \geq

Quadratic inequality in vertex form:

Quadratic Inequality in standard form:



Vertex:

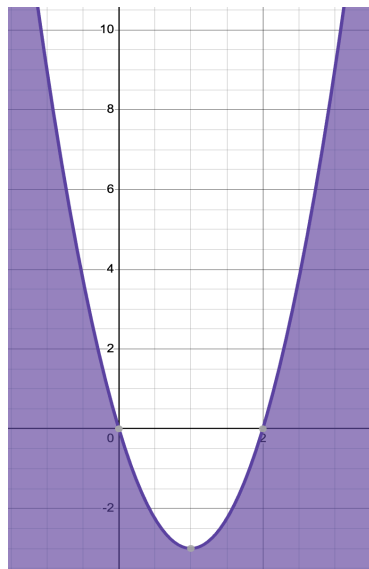
Vertical stretch:

Quadratic equation of curve:

Inequality symbol: $<$ $>$ \leq \geq

Quadratic inequality in vertex form:

Quadratic Inequality in standard form:



Vertex:

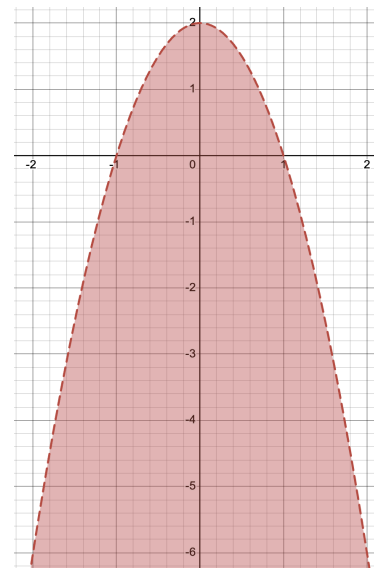
Vertical stretch:

Quadratic equation of curve:

Inequality symbol: $<$ $>$ \leq \geq

Quadratic inequality in vertex form:

Quadratic Inequality in standard form:



Vertex:

Vertical stretch:

Quadratic equation of curve:

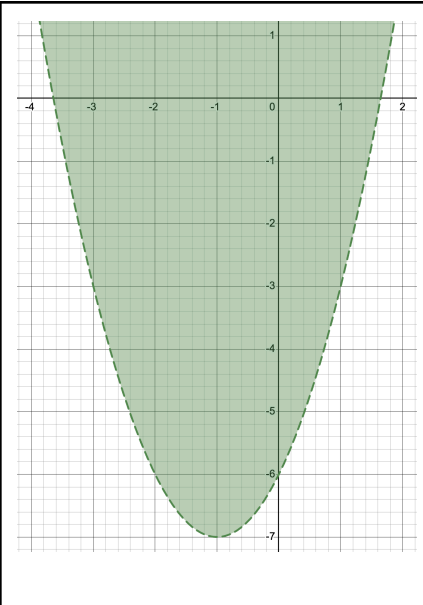
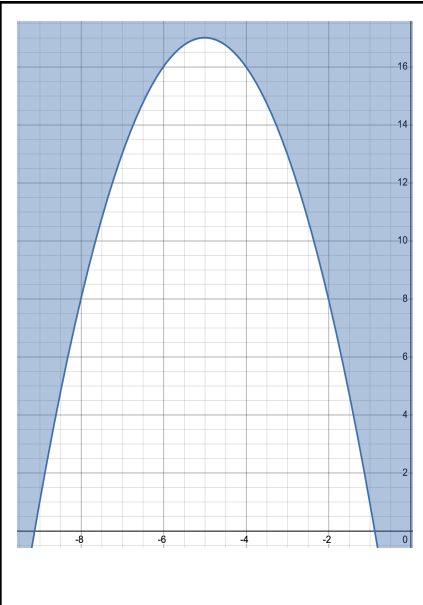
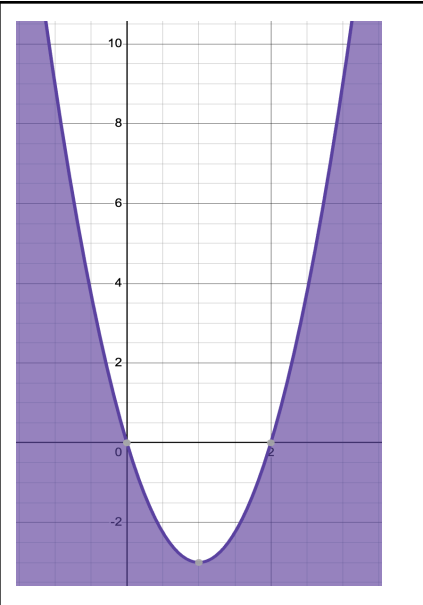
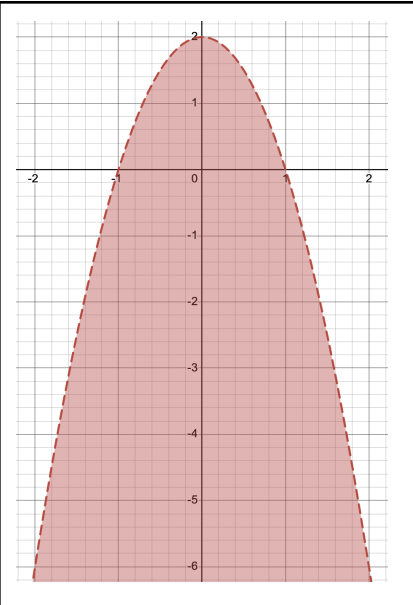
Inequality symbol: $<$ $>$ \leq \geq

Quadratic inequality in vertex form:

Quadratic Inequality in standard form:

ANSWER KEY

Finding the Equations for Quadratic Inequalities in Two Variables

| | | | |
|---|--|---|---|
|  |  |  |  |
| $y > (x + 1)^2 - 7$ $y > x^2 + 2x - 6$ | $y \geq -(x + 5)^2 + 17$ $y \geq -x^2 - 10x - 8$ | $y \leq 3(x - 1)^2 - 3$ $y \leq 3x^2 - 6x$ | $y < -2(x - 0)^2 + 2$ $y < -2x^2 + 2$ |