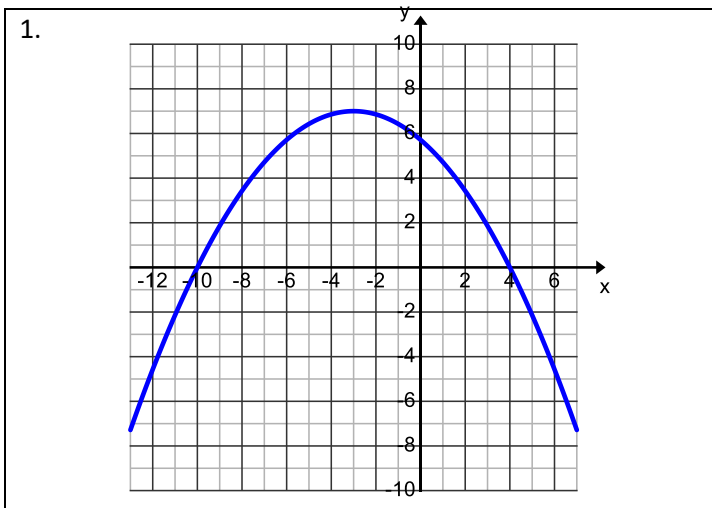


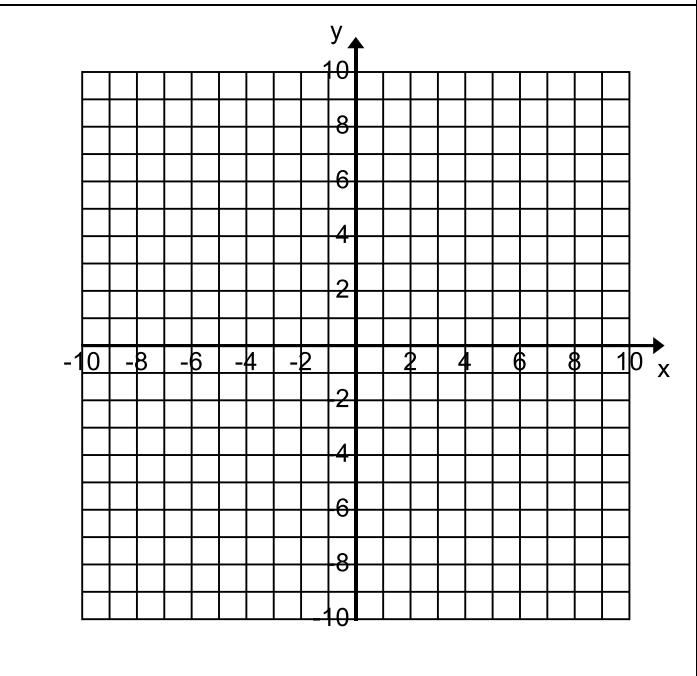
Identify the key features from the graph.



Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:
Is the vertex a maximum or a minimum?	

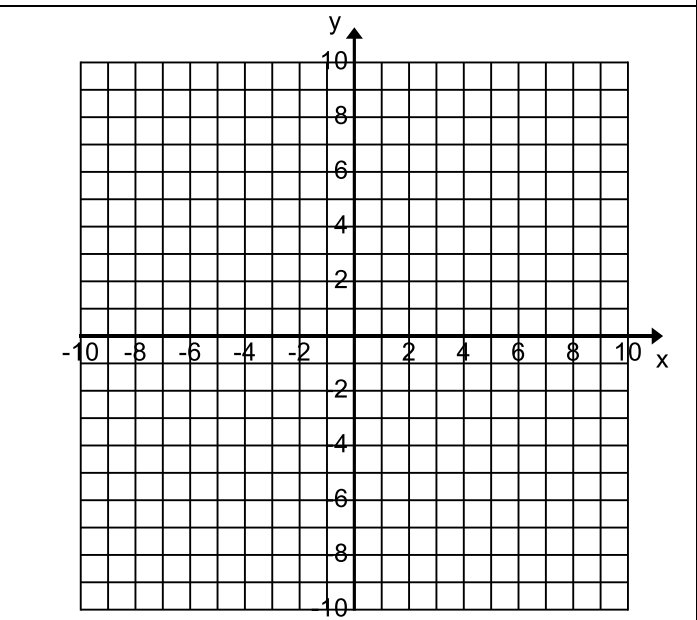
2. $y = .25(x - 1)(x - 9)$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



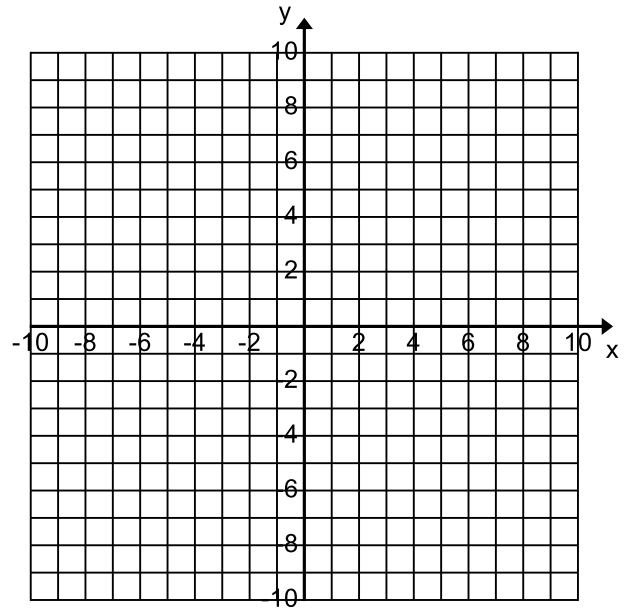
3. $y = (x + 2)^2 + 1$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



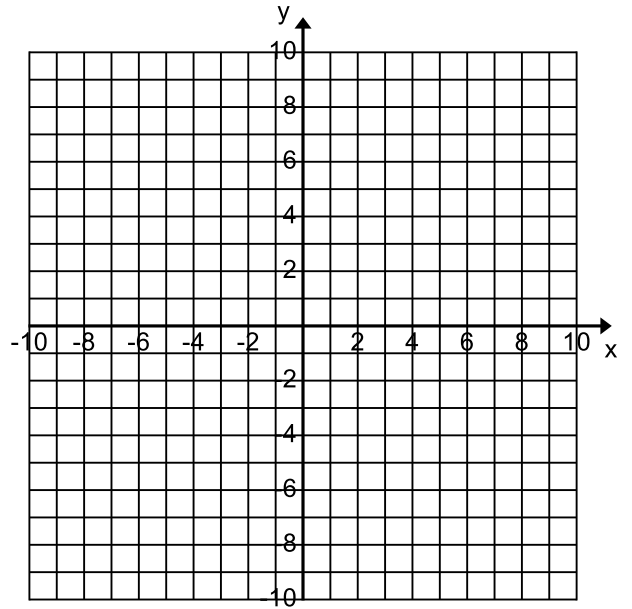
$$4. y = -(x - 1)^2 + 4$$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



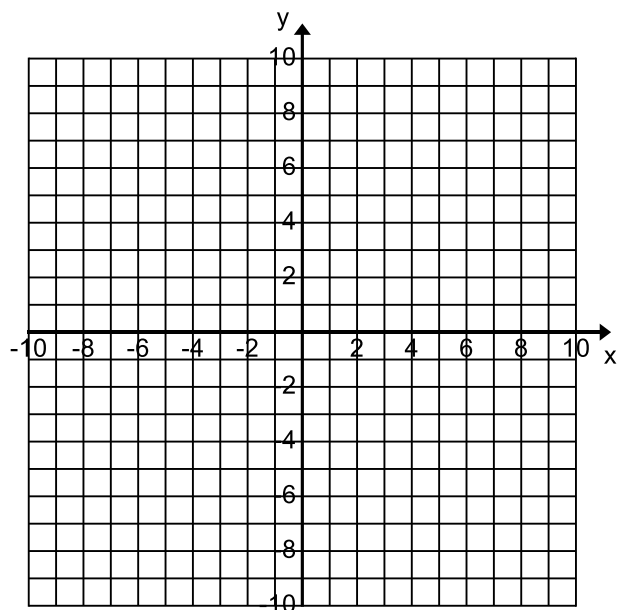
$$5. y = -x^2 + 2x + 3$$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



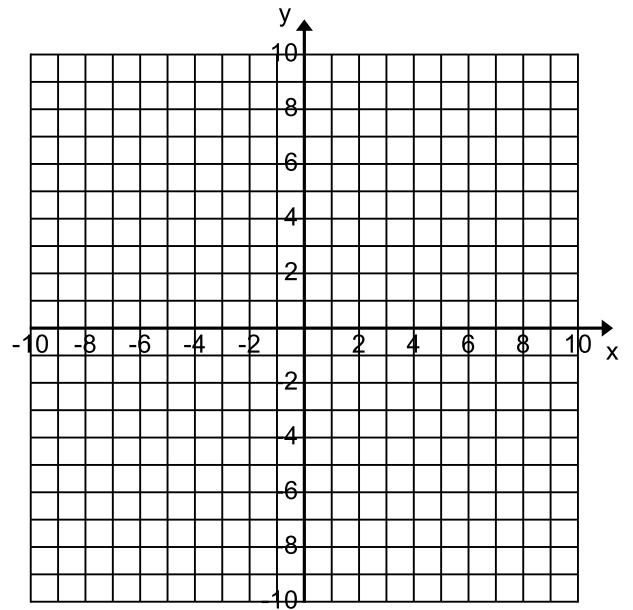
$$6. y = 3(x - 4)(x - 1)$$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



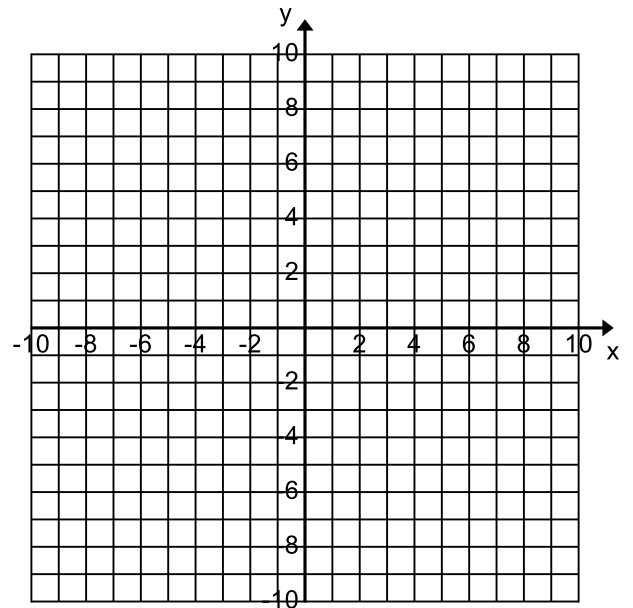
$$7. y = x^2 + 6x + 5$$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



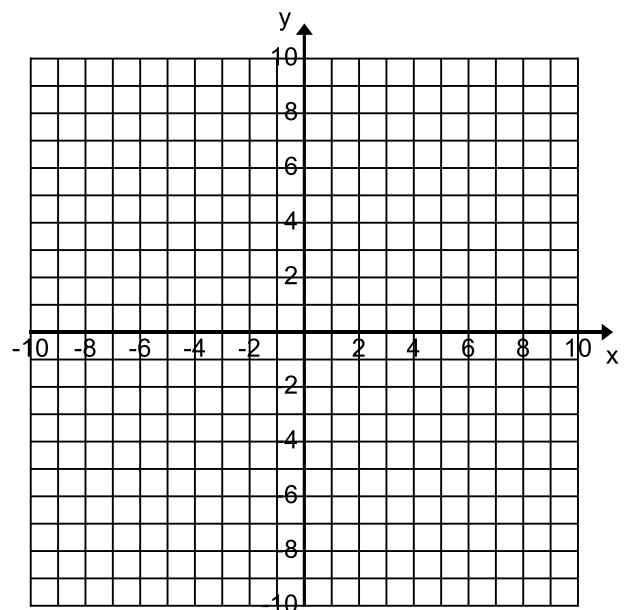
$$8. y = -2(x - 3)^2 + 8$$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



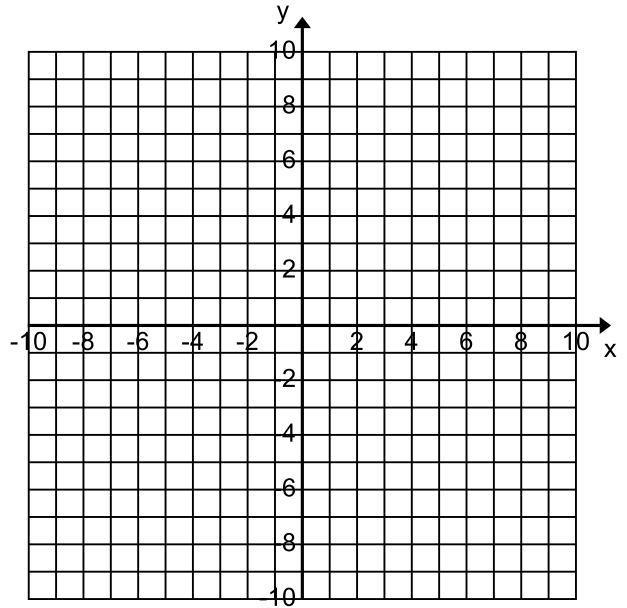
$$9. y = -(x - 2)(x + 2)$$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:

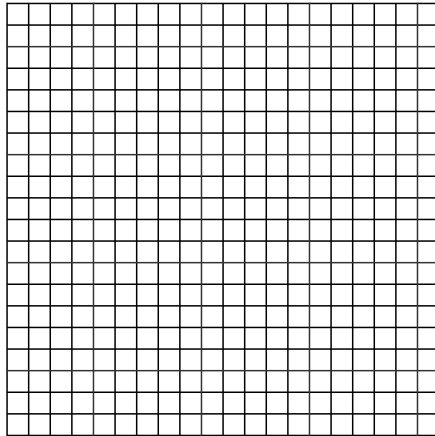


10. $y = -2x^2 - 8x - 9$

Form:	
Vertex:	Axis of Symmetry:
y-intercept:	x-intercepts:
Domain:	Range:



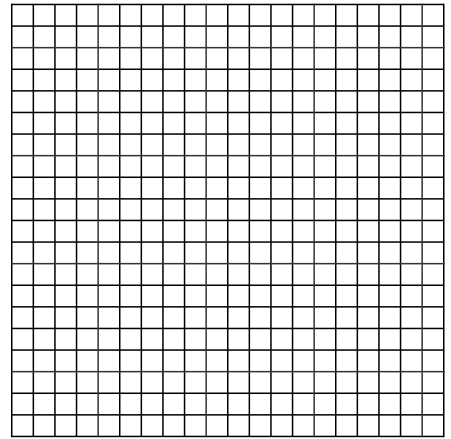
11. A baseball is thrown across a field. Its trajectory is modeled by a parabola that has the equation $y = -.5(x - 0)(x - 20)$, where x and y are measured in feet.



a) How far did the ball travel horizontally by the time it hit the ground?

b) What was the maximum height of the ball?

12. Katniss shoots an arrow that follows the equation $y = -5x^2 + 14x + 3$, where x and y are measured in feet.



a) What was the maximum height of her arrow?

b) Could she possibly hit a person standing 10 feet away with this arrow?