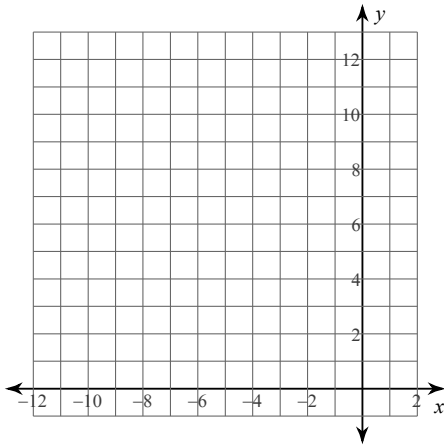


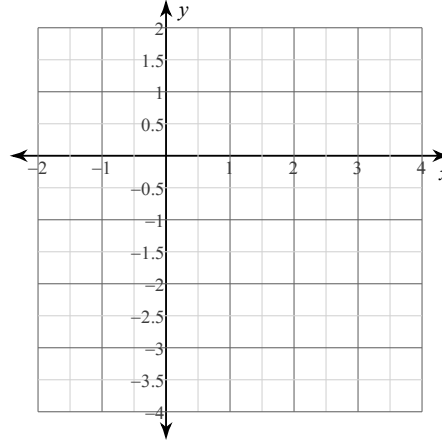
Graphing Quadratic Functions

Sketch the graph of each function. Make a table and state the vertex, axis of symmetry, and the y intercept.

1) $y = 3x^2$

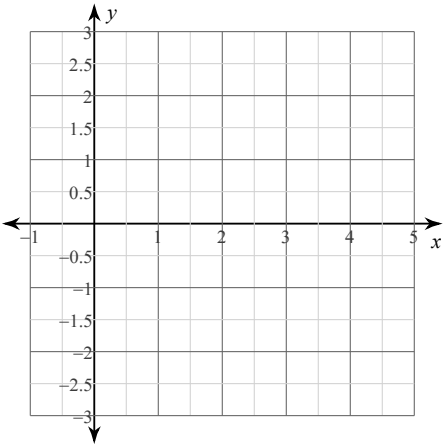


2) $y = -\frac{1}{2}x^2 + 1$

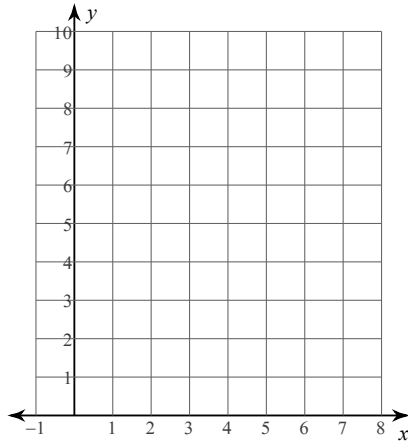


Sketch the graph of each function. State the axis of symmetry, vertex, and y intercept of each.

3) $y = -x^2 + 2x + 1$

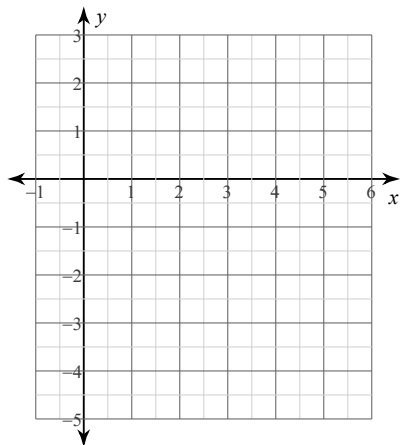


4) $y = 2x^2 - 16x + 33$

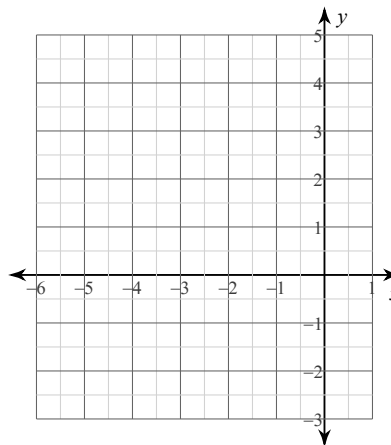


Sketch a graph of the following by finding the x intercepts (factoring), axis of symmetry, and vertex.

5) $y = x^2 - 8x + 15$

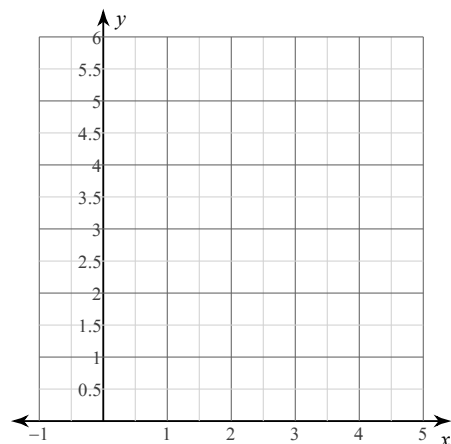


6) $y = -x^2 - 2x + 3$

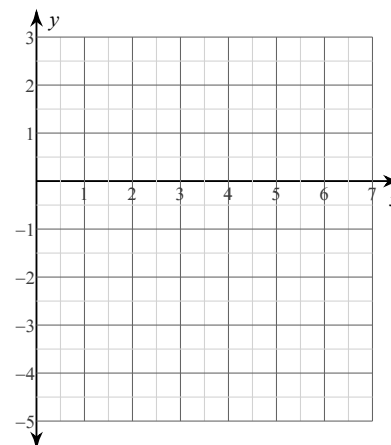


Sketch a graph of each of the following by finding the axis of symmetry, the vertex, and two other points on the graph.

7) $y = (x - 3)^2 + 1$



8) $y = \frac{1}{2}(x - 4)^2 - 2$



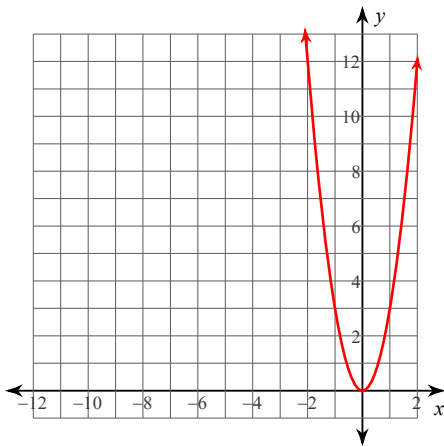
State the domain and range of each graph.

- | | | | |
|-------|-------|-------|-------|
| 1. D: | 3. D: | 5. D: | 7. D: |
| R: | R: | R: | R: |
| 2. D: | 4. D: | 6. D: | 8. D: |
| R: | R: | R: | R: |

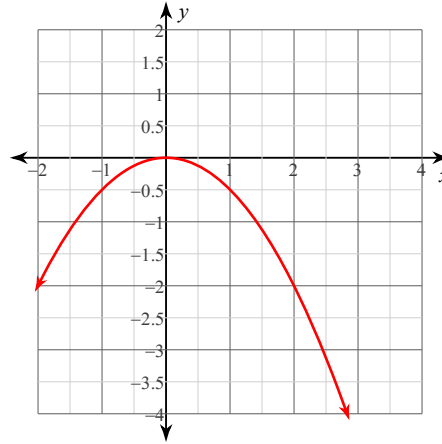
Graphing Quadratic Functions

Sketch the graph of each function.

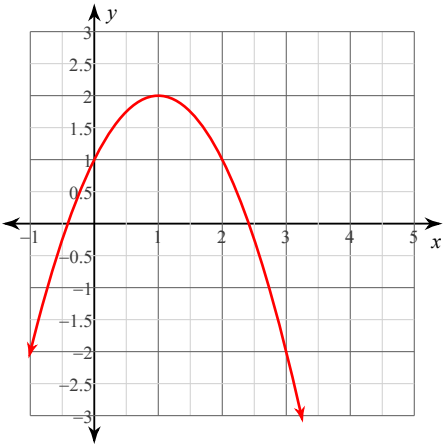
1) $y = 3x^2$



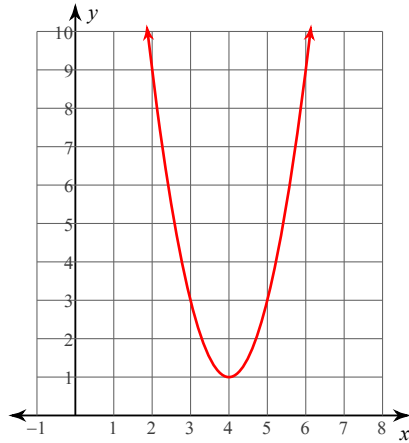
2) $y = -\frac{1}{2}x^2$



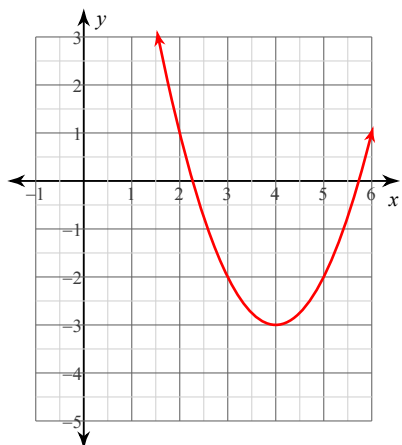
3) $y = -x^2 + 2x + 1$



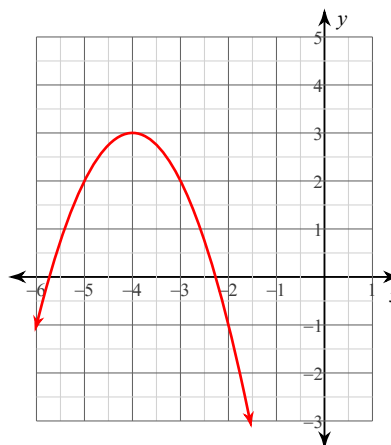
4) $y = 2x^2 - 16x + 33$



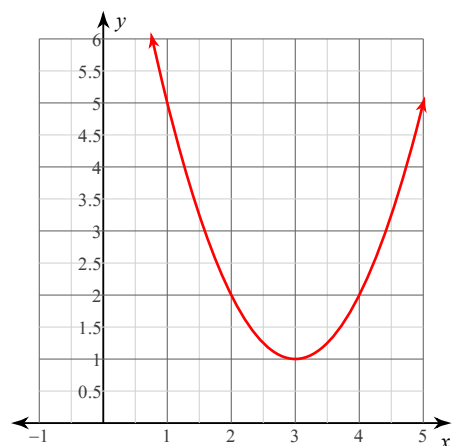
5) $y = x^2 - 8x + 13$



6) $y = -x^2 - 8x - 13$



7) $y = (x - 3)^2 + 1$



8) $y = \frac{1}{2}(x - 4)^2 - 2$

