

Name _____ Date _____ Class _____

Sketch Quadratic Graphs from Given Components

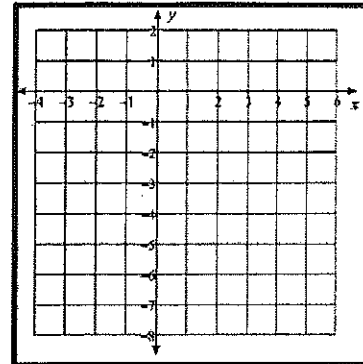
1

x-intercepts: $(0.3, 0)$ and $(1.7, 0)$

y-intercept: $(0, -1)$

Vertex: $(1, 1)$, maximum

Axis of Symmetry: $x = 1$



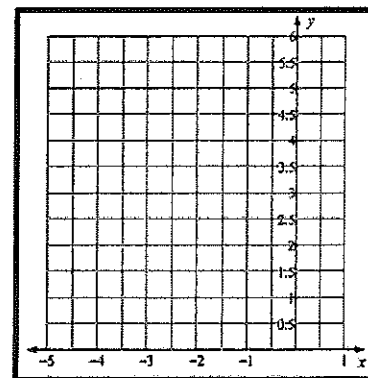
2

Solutions: no solutions

y-intercept: $(0, 2)$

Vertex: $(-1, 1)$, minimum

Axis of Symmetry: $x = -1$



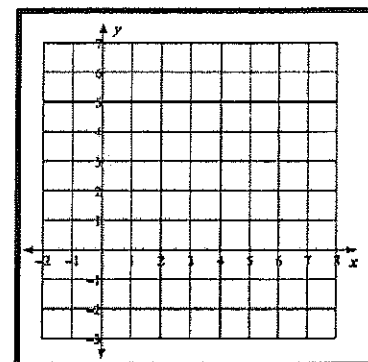
3

Roots: $x = 1$ & $x = 3$

y-intercept: $(0, 6)$

Vertex: $(2, -2)$, minimum

Axis of Symmetry: $x = 2$



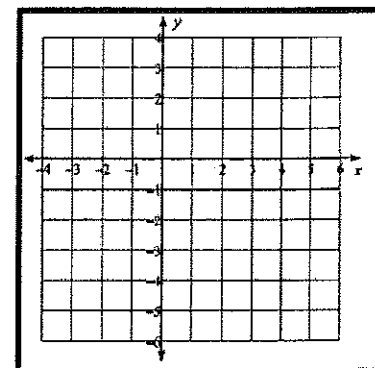
4

Zeros: $x = -0.2$, & $x = 2.2$

y-intercept: $(0, 1)$

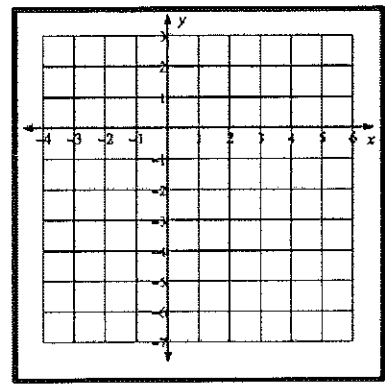
Vertex: $(1, 3)$, maximum

Axis of Symmetry: $x = 1$

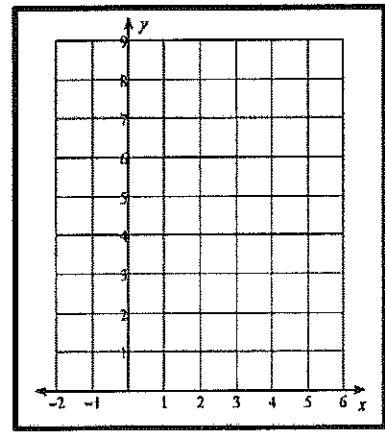


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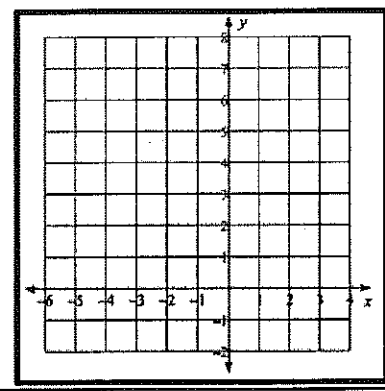
- 5 x-intercepts: $(0, 0)$ and $(2, 0)$
y-intercept: $(0, 0)$
Vertex: $(1, 2)$, maximum
Axis of Symmetry: $x = 1$



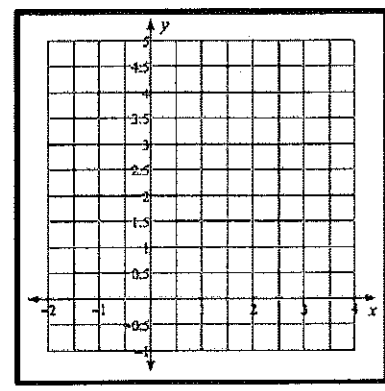
- 6 No roots
y-intercept: $(0, 5)$
Vertex: $(1, 4)$, minimum
Axis of Symmetry: $x = 1$



- 7 Roots: $x = 0.3$ & $x = 1.7$
y-intercept: $(0, 1)$
Vertex: $(1, -1)$, minimum
Axis of Symmetry: $x = 1$



- 8 Zeros: $x = -1$ & $x = 3$
y-intercept: $(0, 3)$
Vertex: $(1, 4)$, maximum
Axis of Symmetry: $x = 1$



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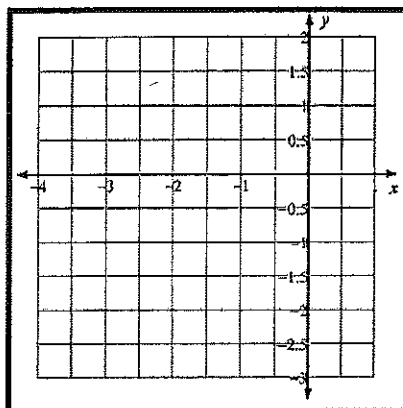
9

x-intercepts: $(-0.4, 0)$ and $(-2.6, 0)$

y-intercept: $(0, -1)$

Vertex: $(-1.5, 1.3)$, maximum

Axis of Symmetry: $x = -1.5$



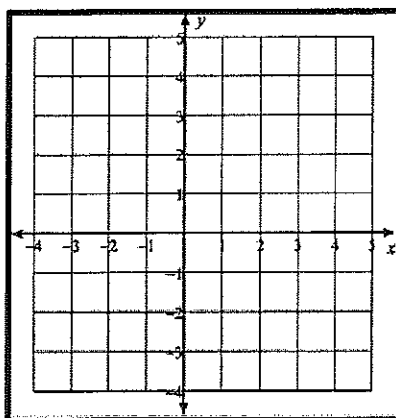
10

Solutions: $x = 1.9$ & $x = -0.9$

y-intercept: $(0, -3)$

Vertex: $(0.5, -3.5)$, minimum

Axis of Symmetry: $x = 0.5$



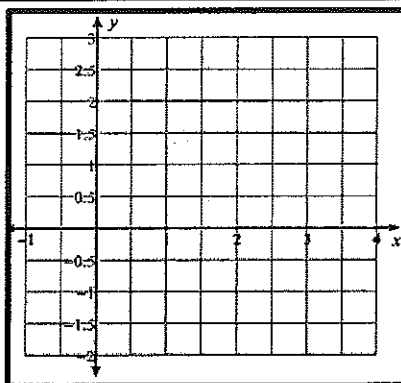
11

Roots: $x = 0$ & $x = 3$

y-intercept: $(0, 0)$

Vertex: $(1.5, 2.2)$, maximum

Axis of Symmetry: $x = 1.5$



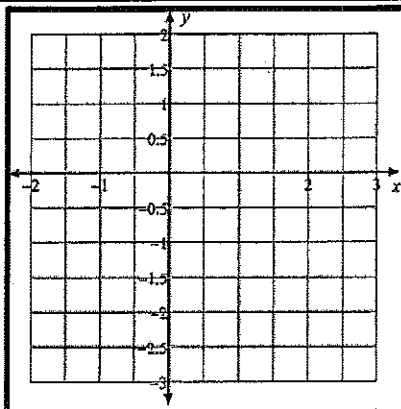
12

Zeros: $x = -1$ & $x = 2$

y-intercept: $(0, -2)$

Vertex: $(0.5, -2.2)$, minimum

Axis of Symmetry: $x = 0.5$



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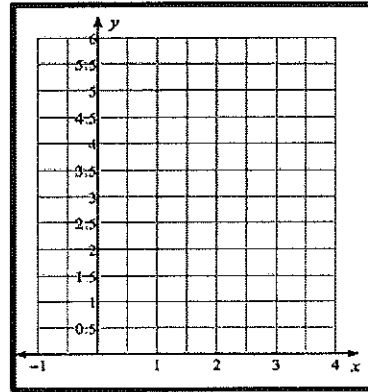
13

x-intercepts: None

y-intercept: (0, 4)

Vertex: (1.5, 1.8), minimum

Axis of Symmetry: $x = 1.5$



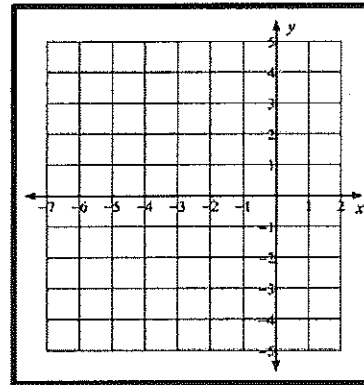
14

Solutions: $x = -2.9$ & $x = -0.2$

y-intercept: (0, 0.5)

Vertex: (-1.5, -4), minimum

Axis of Symmetry: $x = -1.5$



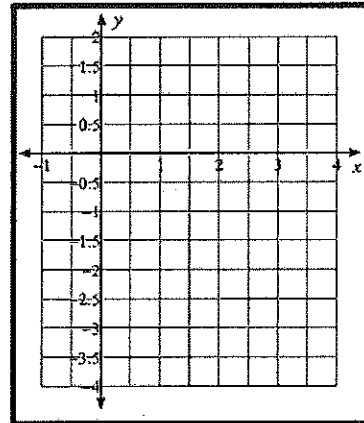
15

Roots: $x = -0.3$ & $x = 3.2$

y-intercept: (0, -0.8)

Vertex: (1.5, -3), minimum

Axis of Symmetry: $x = 1.5$



16

Zeros: none

y-intercept: (0, -6)

Vertex: (-1.5, -1.5), maximum

Axis of Symmetry: $x = -1.5$

