

1. 2, -6
2. $-3/4, -2$
3. Width = 4 ft
Length = 5 ft
4. 0, -4
5. Vertex is at (0, 0)
Line of symmetry is $x = 0$
Graph D
6. First page is 34
Second page is 35

Exact solutions: $\frac{7 + \sqrt{5}}{2}, \frac{7 - \sqrt{5}}{2}$

7. Approximate solutions: $\left(\frac{7 + \sqrt{5}}{2}, 0\right), \left(\frac{7 - \sqrt{5}}{2}, 0\right)$

8. x-coordinates of the intercepts: -4, 0, 6
y-intercept (0, 24)

9. Vertex is at (-2, 0)
Line of symmetry is $x = -2$
Graph B

10. B

11. Vertex is at (3, 15)
Line of symmetry is $x = 3$
Maximum value of $f(x)$ is 15
 $f(3) = 15$ is a maximum
Graph D

12. $x^2 + 6x - 7$

13. Vertex is at (2, 17)
Line of symmetry is $x = 2$
Minimum value of $f(x)$ is 17
 $f(2) = 17$ is a minimum
Graph C

14. $\frac{49 + \sqrt{2409}}{4}, \frac{49 - \sqrt{2409}}{4}$
15. C
- Solutions: $\sqrt{3}, -\sqrt{3}$
16. x-intercepts: $(\sqrt{3}, 0), (-\sqrt{3}, 0)$
17. Vertex is at (-6, -5)
Line of symmetry is $x = -6$
Maximum value of $f(x)$ is -5
 $f(-6) = -5$ is a maximum
Graph B
18. Vertex is at (5, 1)
Line of symmetry is D. $x = 5$
Minimum value of $f(x)$ is 1
 $f(5) = 1$ is a minimum
Graph A
19. A. 2 real solutions
20. Vertex is at (-8, 3)
Line of symmetry is $x = -8$
Maximum value of $f(x)$ is 3
 $f(-8) = 3$ is a maximum
Graph A
21. B
22. 1, -7
23. 450
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