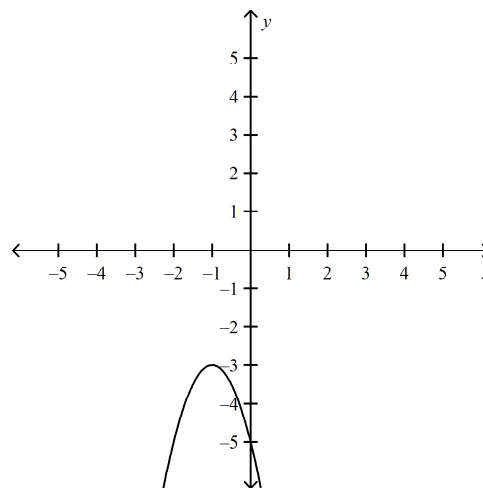
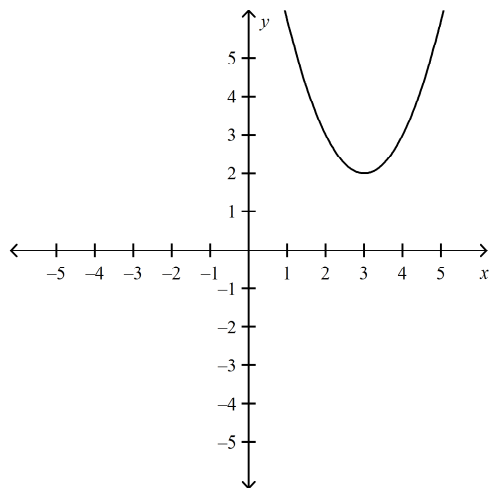


4-4 Review Answer Section

MULTIPLE CHOICE

1. C

PROBLEM



2.
3. 2 meters

SHORT ANSWER

4. vertex: $(-2, -4)$;
axis of symmetry: $x = -2$
5. minimum value: -3
domain: all real numbers
range: all real numbers ≥ -3
6. $y = 3(x + 8)^2 - 7$
7. vertex: $(-6, -88)$
axis of symmetry: $x = -6$
8. vertex: $(2, -12)$
axis of symmetry: $x = 2$
9. minimum value: -106
range: $y \geq -106$
10. maximum: 88
range: $y \leq 88$
11. $y = (x - 1)^2 + 7$
12. $y = -(x - 1)^2 - 7$
13. $(x - 2)(x - 4)$
14. $-(x - 6)(x + 7)$

15. $4x(4x + 2)$

16. $2(x + 3)(x + 5)$

17. $(3x + 5)(x + 7)$

18. $(5x + 3)(x - 5)$