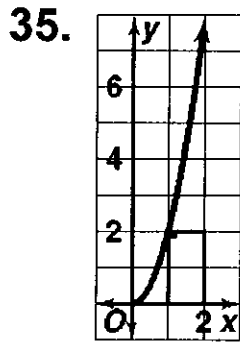


11

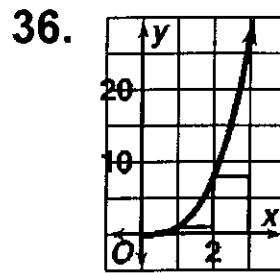
Answers for Chapter Test

1. $a_n = a_{n-1} + 6, a_1 = 7, a_n = 1 + 6n; 73$
2. $a_n = a_{n-1} \cdot 2, a_1 = 10, a_n = 10 \cdot 2^{n-1}; 20,480$
3. a. savings = $50 + 5(\text{months} - 1)$
 b. \$75 $50 + 5m - 5$
4. arithmetic; 59 $5m + 45$
5. arithmetic; 51
6. geometric; 98,415
7. 8
8. 6
9. Check students' work.
10. geometric; $r = \frac{1}{3}$
11. arithmetic; $d = -3$
12. geometric; $r = 2$
13. 2, -4, 8, -16, 32
14. 3, 10, 17, 24, 31
15. -100, -20, -4, $-\frac{4}{5}, -\frac{4}{25}$
16. 19, 15, 11, 7, 3
17. 1
18. 4
19. $\frac{5}{9}$
20. $\frac{2}{3}$
21. 36
22. arithmetic; 156
23. geometric; 6250
24. arithmetic; -4.9
25. 5, 4, 16; 50
26. $8, \frac{2}{3}, \frac{16}{3}; 24$
27. 7, 2.8, 7.6; 36.4
28. 5, -2, -32; -22
29. If the absolute value of the common ratio is less than 1, then it will converge; check students' work.
30. \$3693.64
31. 40 cm, 36 cm, 32.4 cm, 29.16 cm
32. miles
33. pounds
34. dollars

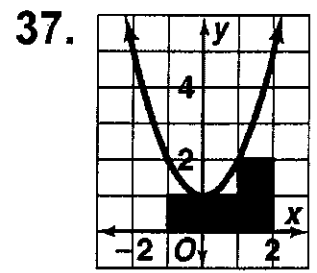
Answers for Chapter Test (cont.)



2units²



9 units²



4 units²

38. Answers may vary. Sample: You could find the sum of the circumscribed rectangles and the sum of the inscribed rectangles and average the numbers.