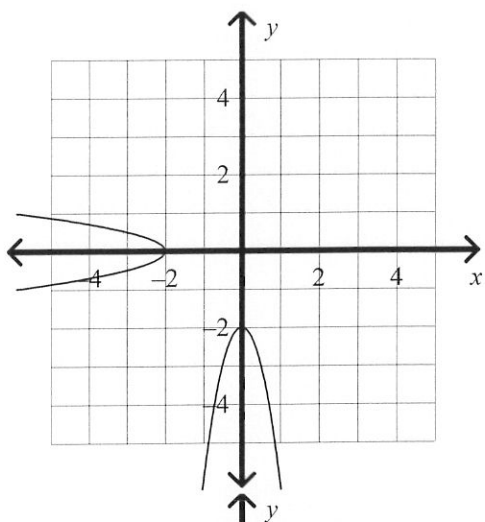


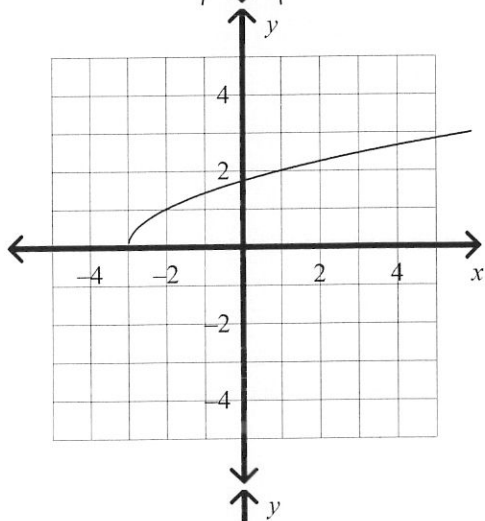
**Advanced Algebra II ~ 2nd Semester REVIEW
Answer Section**

1. $\frac{d^3}{c^5}$
2. $\frac{27}{125y^{27}}$
3. 10
4. 8
5. $\frac{5\sqrt{2}}{2}$
6. $x = 11\sqrt{3}, y = 22$
7. 4.8
8. 57
9. 56
10. 39,916,800
11. A
12. 84
13. $\frac{40}{169}$
14. 42%
15. $3|x^5|y^2$
16. $3x^5y^8$
17. $x^3 \cdot \sqrt[3]{63x^2}$
18. $3x^6\sqrt[3]{2x}$
19. $28 + 10\sqrt{3}$
20. $-3 + 2\sqrt{2}$
21. $3^8\sqrt{x^3}$
22. B
23. -5, 11
24. 1
25. -4
26. -53
27. $\frac{63}{55}$
28. $y = \pm\sqrt{\frac{x+3}{7}}$

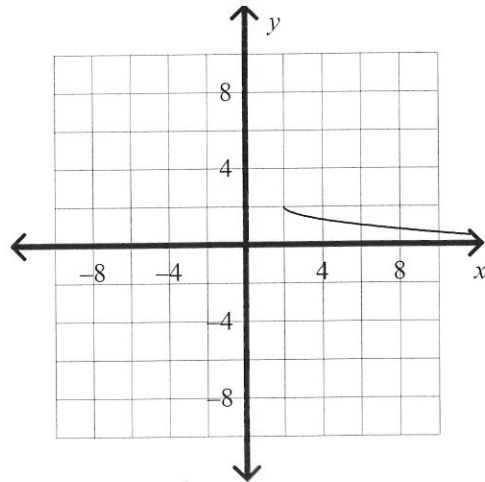
29.



30.

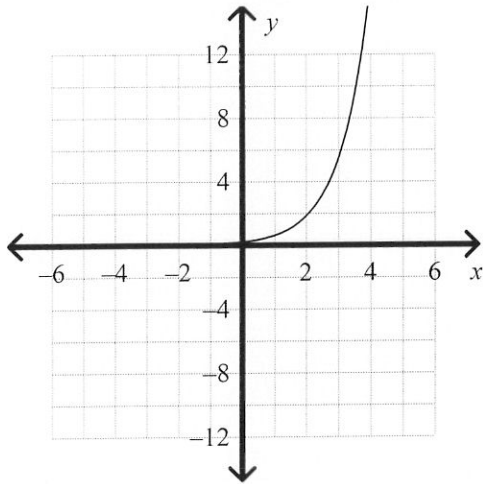


31.



32. exponential decay

33.

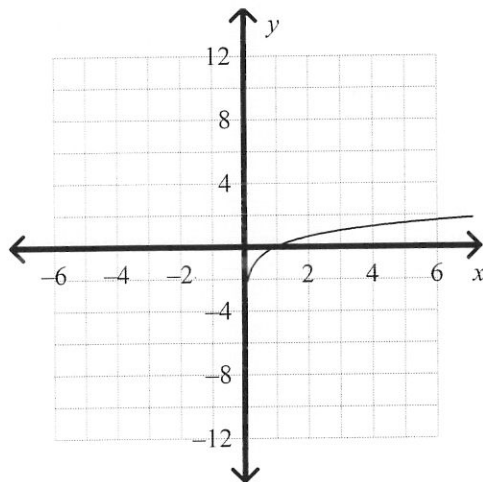


34. 6.0496

35. \$1,923.23

36. -4

37.



38. none of these

39. 1.896

40. $\frac{3}{8}$

41. 0.14

42. 6

43. 0.168

44. $y = \frac{80}{x}$ 45. $y = \frac{4}{x-7} + 6$ 46. $y = \frac{2}{x-5} - 3$ 47. asymptote: $x = 5$ and hole: $x = 1$ 48. $y = -1$

49. $\frac{3g^3h^3}{100}$, $g \neq 0$, $h \neq 0$
50. $\frac{(a+2)(a-3)}{a+1}$, $a \neq 5, -1, 3$
51. $\frac{a+12}{a-3}$
52. $\frac{n-13}{n-7}$
53. $-\frac{19}{3}$
54. -9
55. $(x-2)^2 + (y+4)^2 = 25$
56. right
57. B
58. C
59. A
60. D