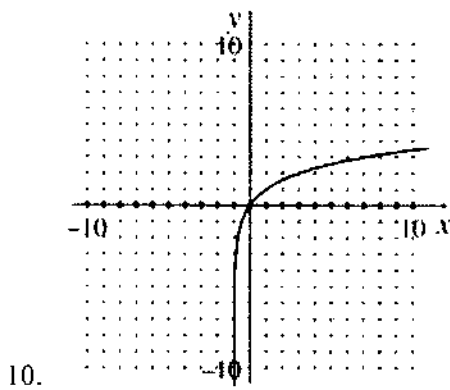
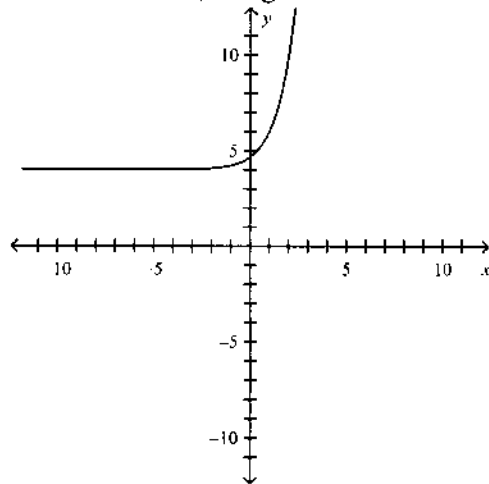


HW #72: SHOW ALL WORK on a separate piece of paper. All graphs must be on graph paper.
Answer Section

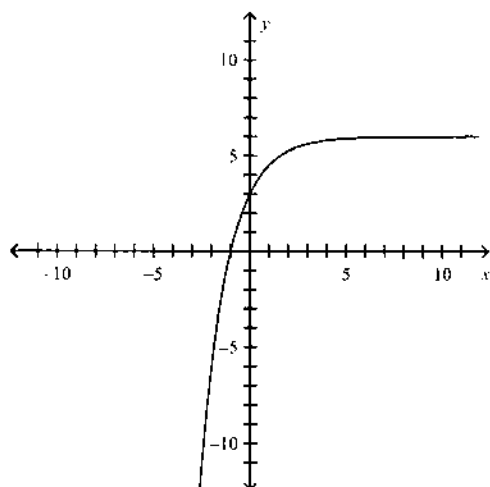
1. \$1872.98
2. \$1819.40
3. \$452.89
4. $f(x) = 390(0.89)^x$; 218
5. \$8514.41
6. $243^{6.5} = 729$
7. 4
8. -2
9. -4



Domain: $x > -1$; Range: all real numbers



11.
 D: All real numbers
 R: $y > 4$



12. D: All real numbers
R: $y < 6$

13. False

14. True

15. $\log_5 \frac{4y^4}{x^3}$

16. $\ln 2 + \ln x - 4 \ln y$

17. $\log_3 \frac{2\sqrt{y}}{x^2}$

18. $\frac{16}{21}$

19. $\frac{3}{2}$

20. 3

21. $x = -6.425$

22. $x = 6$

23. 62.712

24. 2

25. $x = 24$ or 28

26. $\frac{16}{3}$