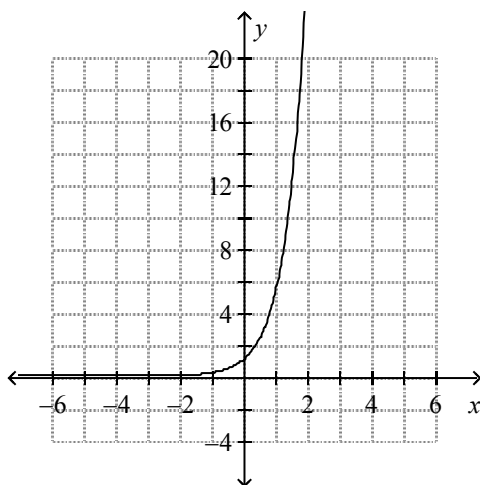


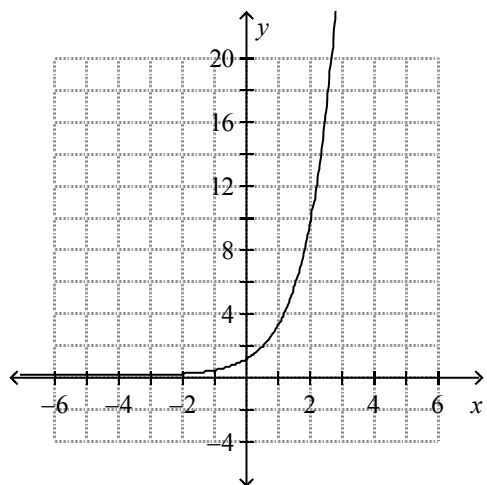
Chapter 7 & 8 Review - SOLUTIONS

1. $2x^4y^3$
2. $2\sqrt{3}$
3. $3a^5b^3\sqrt[3]{2a^2}$
4. $2x^7\sqrt[3]{5}$
5. $16\sqrt{13}$ units
6. 16
7. $5\sqrt{3} - 2\sqrt{5}$
8. $\sqrt{6}$
9. $54 - \sqrt{2}$
10. 2
11. $x=39$
12. $x=31, x=-23$
13. $f(x) = 895(1.07)^x$; 1343 armadillos
14. $y = 6(2.5)^x$
15. $y = 7(2)^x$
16. 75% increase
17. 130% increase
18. 30% decrease
19. $y = 801\left(\frac{1}{2}\right)^{t/52}$; 701.039 kg
20. $y = 3\left(\frac{1}{2}\right)^{t/12}$; 0.446 kg
21. \$1,847.81
22. \$1,359.53
23. \$1508.12
24. \$474.38
25. \$523.26
26. about 6927 times as much energy
- 27.



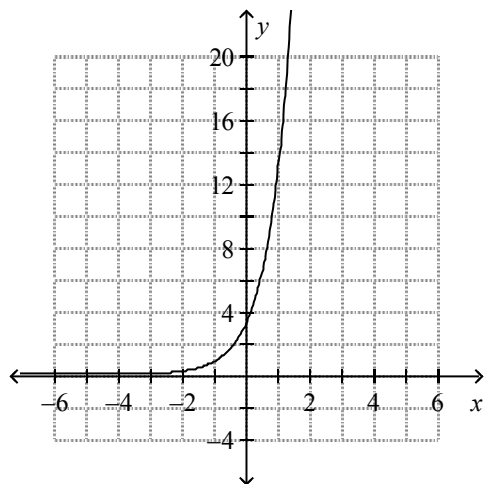
asymptote: $y = 0$
domain: $(-\infty, \infty)$ or all real #s
range: $(0, \infty)$ or $y > 0$

28.



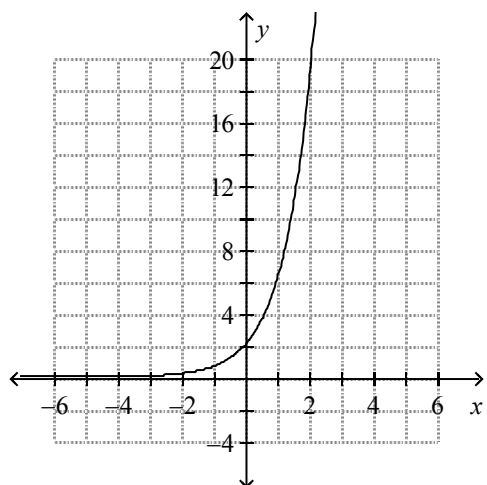
asymptote: $y = 0$
domain: $(-\infty, \infty)$ or all real #s
range: $(0, \infty)$ or $y > 0$

29.



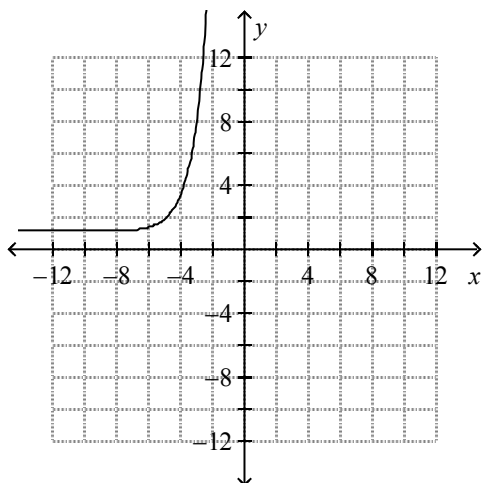
asymptote: $y = 0$
domain: $(-\infty, \infty)$ or all real #s
range: $(0, \infty)$ or $y > 0$

30.



asymptote: $y = 0$
domain: $(-\infty, \infty)$ or all real #s
range: $(0, \infty)$ or $y > 0$

31.

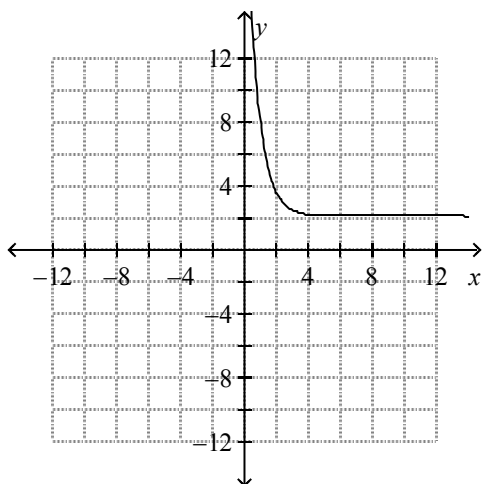


asymptote: $y = 1$

domain: $(-\infty, \infty)$ or all real #s

range: $(1, \infty)$ or $y > 1$

32.



asymptote: $y = 2$

domain: $(-\infty, \infty)$ or all real #s

range: $(2, \infty)$ or $y > 2$