

Chapter 8 Test Answers

1. d.) x^3

2. 1

3. $\approx \$44,128.12$

4. $\approx 10,305$

5. $\approx \$1.10$

6. $\approx \$3,422.07$

7. sorry, but it is too hard to display the answers for these graphs.

8. $\frac{n^3}{2}$

9. a^2b^2

10. $\frac{3}{2b^2c^2}$

11. a^8

12. r^2

13. y^{-7} or $\frac{1}{y^7}$

14. $\frac{27a^6}{125b^3}$

15. $\frac{16}{81}n^{20}$

16. $\frac{a^8c^4}{4}$

17. $16a^{12}b^8$

18. $\frac{-27b^6}{a^{15}}$

19. $-16r^{16}$

20. $\frac{ac^2}{b^3}$

21. $\frac{4y^2}{c^2d^3}$

22. $\frac{\overline{b}}{4e^3}$

23. $\frac{-5}{y^2c^3}$

24. $2a^2b^{-3}c^{-2}$

25. $a \cdot 5^{-1} c^{-4} d^{-1} g^{-2}$

26. a.) 11 years
b.) between 17 and 18 years
c.) 22 years
d.) between 36 and 37 years

27. 5% for 8 years

28. No, it would not be back to 200,000 liters within the 6 hours.
After 6 hours you would have about 198,922 liters of water.