

1. $\frac{1}{A^2}$ 2. $\frac{6}{M^4}$ 3. $\frac{-10R^5}{K^2}$ 4. $\frac{8X^4T^5}{E^2H}$ 5. G^3 6. 1 7. $\frac{W^3}{J^4}$ 8. 12 9. Y^6
10. N^4 11. $\frac{1}{C^2}$ 12. $\frac{15A^5}{D^{11}}$ 13. $\frac{-8R^6T^7}{V^8}$ 14. $C^8E^{16}Q^5$ 15. $90N^9P^8$ 16. $18GH^4$
17. T^6 18. W^6 19. $\frac{1}{K^{18}}$ 20. 1 21. $100M^{15}R^9$ 22. $\frac{25T^8}{W^6}$ 23. $-64A^{15}B^{12}$
24. $\frac{160N^6}{M}$ 25. $\frac{R^8}{9T^{16}}$ 26. $-49H^{21}J^{16}$ 27. $\frac{E^{15}F^4}{G^7}$ 28. H^5 29. $3M^3$ 30. $-3A^6C^3$
31. 1 32. $\frac{F^6}{64}$ 33. $G^6H^2J^6$ 34. $\frac{B^6}{25A^6}$ 35. $-2M^3X$ 36. $\frac{9}{4}$ 37. -384 38. $-\frac{1}{72}$
39. $\frac{10}{3}$ 40. a) Decay b) Growth c) Decay
41. a) $b = 1.23$ b) $b = .826$ c) $b = 1.0093$ d) $b = .9896$
42. a) 1.8% decrease b) 95.4% increase c) 8.5% increase d) 63% decrease
43. a) $52400(1.065)^{-7} = 33,720.0$ b) $52400(1.065)^7 = 81,429.$
44. a) $130000(.948)^{14} = 61,555$ b) $130000(.948)^{-11} = 233,912$

1. a) Degree=10 b) Degree=4
2. a) $10r^3 - 30r^2$ b) $7k^6j^3 + 14k^3j^5 - 21k^2j^7$
3. a) $4m(3m - 1)$ b) $2w^3(9w^2 + 4)$ c) $4a^2b^3(6a^2 - 5b^2a + 3b^4)$
4. a) $m^2 + 4m - 21$ b) $a^2 - 7a + 10$ c) $6r^2 + 7r - 5$ d) $w^2 + 14w + 49$
e) $y^2 - 64$ f) $9n^2 - 4$ g) $2k^3 + 13k^2 + k - 21$
5. a) $2x(2x - 3)(3x - 5)$ b) $(r + 6)(r - 5)$ c) $(2y + 3)(5y - 4)$ d) $(x + 7)(x - 9)$
e) $(c + 8)^2$ f) $(4w + 3)(2w + 1)$ g) $5(p - 2)(p - 6)$ h) $(3c + 7)(c - 2)$
i) $(w - 6)(w + 6)$ j) $(3w - 10)(3w + 10)$ k) $7g(2g - 5)(2g + 5)$