

CHAPTER 4 .1 - 4.6

TEST FORM A

ANSWERS

1. $5^{-6}, \text{ or } \frac{1}{5^6}$
2. X^6
3. $(4a)^5$
4. b^4
5. $X^{-3}, \text{ or } \frac{1}{X^3}$
6. 1
7. X^{12}
8. $-216y^6$
9. $\frac{125a^3b^6}{a^3b^6}$
10. $\frac{c^3}{c^3}$
11. $-200x^{18}$
12. $-448x^{26}$
13. $18x^9$
14. $288x^9$
15. $\frac{1}{4^2}$
16. y^{-4}
17. 2.5×10^5
18. 0.00004

$$42. \frac{4a^2 + 4b^3 - 5ab}{-2a}$$

ANSWERS

19. 2.2×10^{-8}
20. 1.176×10^{-10}
21. About
 1.16×10^{-4}
22. -6
23. $\frac{1}{2}, -3, -7$
24. $3, 1, 0, 2, 3$
25. Monomial
26. $7a^2 - 9$
27. $\frac{2}{3}y^2 + 5y$

$$28. X^3 + 4X^2 - 2X - 4$$

$$43. 81x^{25} - 16y^6$$

ANSWERS

29. $9x^5 - x^4 + 3x^3 - 2x^2 + 2x + 9$
30. $-\frac{1}{3}x^2 + 3x - 2$
31. $\frac{3x^4 + x^3 - 12x^2 + 6x - 5}{-x^4 - 3.2x^3 - 1.5x^2 + 2}$
32. _____
33. $-20x^5 - 16x^4 + 4x^3$
34. $X^2 + \frac{1}{2}X + \frac{1}{16}$
35. $49x^2 - 25$
36. $8b^2 - 39b - 5$
37. $X^{10} + 5X^8 - 4X^2 - 20$
38. $35 + 38y - 9y^2$
39. $16x^3 - 34x^2 + 9x + 9$
40. $9t^2 + 30t + 25$

$$41. 4xy^3 + 4x^2y - 7xy - 4$$