

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

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

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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. $\frac{2}{3}y^2 + 5y$

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

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

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29. $9X^5 - X^4 + 3X^3 - 2X^2 + 2X + 9$
30. $-\frac{1}{3}X^2 + 3X - 2$
31. $\frac{3X^4 + X^3 - 12X^2 + 6X - 5}{+6X - 5}$
32. $-X^4 - 3.2X^3 - 1.5X^2 + 2$
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. $9t^2 + 30t + 25$

$$41. 4Xy^3 + 4X^2y - 7Xy - 4$$