

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.  $2.5 \times 10^5$
18.  $0.00004$

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

ANSWERS

19.  $2.2 \times 10^{-8}$
20.  $1.176 \times 10^{-10}$
21. About  
 $1.16 \times 10^{-4}$
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.  $3x^4 + x^3 - 12x^2 + 6x - 5$
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.  $9t^2 + 30t + 25$

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