

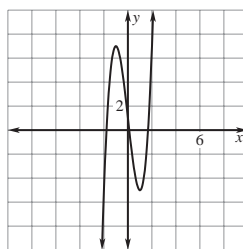
Answer Key

Test A

1. $\frac{1}{x}$ 2. $8x^3y^3$ 3. y^6 4. $-5x^2y$

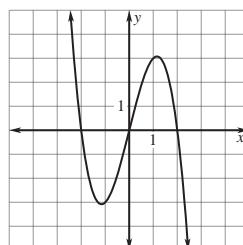
5. $f(x) \rightarrow -\infty$ as $x \rightarrow -\infty$
and $f(x) \rightarrow +\infty$ as $x \rightarrow +\infty$;

x	-2	-1	0	1	2
y	-5	7	1	-5	7



6. $f(x) \rightarrow +\infty$ as $x \rightarrow -\infty$
and $f(x) \rightarrow -\infty$ as $x \rightarrow +\infty$;

x	-2	-1	0	1	2
y	0	-3	0	3	0



7. $2x^2 - 2x + 2$ 8. $4x^2 - y^2$ 9. $x^3 + 1$
 10. $(5x + 1)(5x - 1)$ 11. $(x + 1)(x^2 - x + 1)$
 12. $4x^2y(3x^2y^2 + 5y - 6)$ 13. 4, -4
 14. 2, -2, 3, -3 15. 1, -1, -4
 16. $x^2 + 2x - 3$ 17. $2x^2 + 8x + 8$
 18. Possible zeros: 1, -1, 3, -3; Zeros: -1, -3
 19. Possible zeros: 1, -1, 2, -2, 4, -4, 8, -8
 Zeros: -4, 1, 2
 20. $f(x) = x^3 + 2x^2 - 11x - 12$
 21. $f(x) = x^2 - 7x + 12$ 22. -1.29, 2, 3.24
 23. x -intercepts: (-3, 0), (3, 0);
 local max: (0, 27); local mins: (-3, 0), (3, 0)
 The graph rises to the right and to the left.

24.

