

1. The degree of the first term is 3
The degree of the second term is 2
The degree of the third term is 1
The degree of the fourth term is 0
The degree of the polynomial is 3

2. x^{13}

3. $(1, 0), (-3, 0)$

4. $4a\sqrt{2b}$

5. 7

6. $\frac{15x}{11}$

7. $(3s - 8)^2$

8. $c^3 + f^3$

9. B

10. $\frac{s-1}{s+1}$

11. $\frac{1}{p^5}$

12. $-2x^2 - 14xy - 8y^2$

13. $2\frac{6}{11}$

14. B

15. $-\frac{1}{5}$

16. $27x^3 + 87x^2 + 74x + 16$

17. $\frac{1}{r^5}$

18. Solutions: $\sqrt{2}, -\sqrt{2}$
x-intercepts: $(\sqrt{2}, 0), (-\sqrt{2}, 0)$
19. $18^{\frac{1}{6}}$
20. $\frac{x(x+14)}{x^2-36}$
21. $3(2a+3g)^2$
22. $(s-6)(s-7)$
23. x-coordinate of the vertex is $\frac{1}{2}$
y-coordinate of the vertex is $\frac{13}{2}$
Line of symmetry is $x = \frac{1}{2}$
Maximum value of $f(x)$ is $\frac{13}{2}$
 $f(\frac{1}{2}) = \frac{13}{2}$ is a maximum
Graph D
24. $w^2 + \frac{2}{3}w + \frac{1}{9}$
25. Perimeter = $4z + 18$
Area = $z^2 + 9z$
26. $s^5 - 3s^4 + 5s^3 + 10s^2 + 2s - 8$
27. $(4v+3)(4v-3)$
28. x^2
29. $(b+3)^2$
30. $7a^4$
31. 6
32. $\frac{6x^2}{y} \sqrt[3]{x^2}$
33. $\frac{5v-4}{v-9}$

34. $-11 < x < -1, x > 15$
35. $2\sqrt{3}$
36. 7, -1
37. $\frac{1+i\sqrt{39}}{4}, \frac{1-i\sqrt{39}}{4}$
38. $\frac{c-2\sqrt{cd}+d}{c-d}$
39. 5, -6
40. $3y^7\sqrt[3]{3}$
41. 0.9
42. B
43. 4
44. $x^2 - 6x + 9$
45. $-1 + \sqrt{5}, -1 - \sqrt{5}$
46. Discriminant = 305
B
47. -420
48. 21
49. $2x^{17} - 2x^9 - 14x^8 + 14$
50. Vertex is (-6, 7)
Line of symmetry is $x = -6$
Minimum value of $f(x)$ is 7
 $f(-6) = 7$ is a minimum
Graph A
51. $|a + 5|$
52. 81,500,000

53. 6

54. $\frac{9a}{a-4}$

55. $-19v^2 + 5v$

56. 2

57. $k = 10$
 $y = 10x$

58. $\frac{11}{z+8}$

59. 8, -8

60. $\frac{q+1}{5q+6}$

61. $w(w+6)(w-8)$

62. $4x^6(x^2 - 3x + 5)$

63. $\frac{\sqrt{15}}{5}, -\frac{\sqrt{15}}{5}, \frac{\sqrt{5}}{5}, -\frac{\sqrt{5}}{5}$

64. 1, -1

65. $144n^{12}$

66. 2