

35. $x^2 - 81$

36. $m^2 + 12m + 36$

37. $9c^2 - 30c + 25$

38. $4y^2 - 25$

39. $49h^2 + 56h + 16$

40. $81g^2 - 72g + 16$

41. $8k^3 + 72k^2 + 216k + 216$

42. $64n^3 - 144n^2 - 108n - 27$

43. $8t^3 + 48t^2 + 96t + 64$

44. $36m^2 + 24m + 4$

45. $16q^4 - 96q^3 + 216q^2 - 216q + 81$

46. $g^5 + 10g^4 + 40g^3 + 80g^2 + 80g + 32$

47. $y^5z^5 + 5y^4z^4 + 10y^3z^3 + 10y^2z^2 + 5yz + 1$

48. $n^4p^4 - 4n^3p^3 + 6n^2p^2 - 4np + 1$

61.

$$\begin{array}{cccccccc}
 & & & & & & & 1 \\
 & & & & & & 1 & 1 \\
 & & & & & 1 & 2 & 1 \\
 & & & & 1 & 3 & 3 & 1 \\
 & & & 1 & 4 & 6 & 4 & 1 \\
 & & 1 & 5 & 10 & 10 & 5 & 1 \\
 & 1 & 6 & 15 & 20 & 15 & 6 & 1 \\
 & 1 & 7 & 21 & 35 & 35 & 21 & 7 & 1 \\
 & 1 & 8 & 28 & 56 & 70 & 56 & 28 & 8 & 1 \\
 & 1 & 9 & 36 & 84 & 126 & 126 & 84 & 36 & 9 & 1 \\
 & 1 & 10 & 45 & 120 & 210 & 252 & 210 & 120 & 45 & 10 & 1
 \end{array}$$

$$(x + 3)^7 = x^7 + 21x^6 + 189x^5 + 945x^4 + 2835x^3 + 5103x^2 + 5103x + 2187;$$

$$(x - 5)^9 = x^9 - 45x^8 + 900x^7 - 10,500x^6 + 78,750x^5 - 393,750x^4 + 1,312,500x^3 - 2,812,500x^2 + 3,515,625x - 1,953,125$$

63. a. 5

b. 5

c. 9

d. $g(x) + h(x)$ has degree m . $g(x) - h(x)$ has degree m .
 $g(x) \cdot h(x)$ has degree $(m + n)$.