6.1 p 54 1 even

(2) $5x - 2$ Binomial of Degree 1

(4) $x^5 - 7x$ Binomial of Degree 5

(6) $10x^2$ Monomial of Degree 2.

(8) $9 = 9x^0$ Monomial of Degree 0

(10) $x^2 - 9x + 2$ Trinomial of Degree 2

(12) $3y^2 - 14y^5 + 6 = -14y^5 + 3y^2 + 6$ Trinomial of Degree 5.

(14) $9x - 5x^3 = -5x^3 + 9x$ Binomial of Degree 3.

(16) $-11y^{26}$ Monomial of Degree 26.

(18) $(8x - 5) + (-13x + 9) = 8x - 13x - 5 + 9$

$= -5x + 4$

(20) $(11x^2 + 7x - 4) + (27x^2 + 10x - 20) = 11x^2 + 27x^2 + 7x + 10x - 4 - 2$

$= 38x^2 + 17x - 24$

(22) $(-3x^2 + x) + (4x^2 + 8x) = -3x^2 + 4x^2 + x + 8x$

$= x^2 + 9x$

(24) $(-7x^2 + 8x + 3) + (2x^2 + x + 8) = -7x^2 + 2x^2 + 8x + x + 11$

$= -5x^2 + 9x + 11$

6.1 p347

(26) $(2y^3 + 3y + 10) + (3y^2 + 5y - 22) = 2y^3 + 3y^2 + 3y + 5y + 10 - 22$

$= 2y^3 + 3y^2 + 8y - 12$

(28) $(4x^3 + 5x + 13) + (-4x^2 + 22) = 4x^3 - 4x^2 + 5x + 13 + 22$

$= 4x^3 - 4x^2 + 5x + 35$

(30) $(7y^3 + 5y - 1) + (2y^2 - 6y + 3) = 7y^3 + 2y^2 + 5y - 6y - 1 + 3$

$= 7y^3 + 2y^2 - y + 2$

(32) $(7r^4 + 5r^2 + 2r) + (-18r^4 - 5r^2 - r)$

$= 7r^4 - 18r^4 + 5r^2 - 5r^2 + 2r - r$

$= -11r^4 + r$

(34) $\left(12x^3 - x^2 - x + \frac{4}{3}\right) + \left(x^3 + x^2 + x - \frac{1}{3}\right)$

$= 12x^3 + x^3 - x^2 + x^2 - x + x + \frac{4}{3} - \frac{1}{3}$

$= 13x^3 + \frac{1}{3}$

(36) $\left(\frac{2}{5}x^4 + \frac{2}{3}x^3 + \frac{5}{8}x^2 + 7\right) + \left(\frac{-4}{5}x^4 + \frac{1}{3}x^3 - \frac{1}{4}x^2 - 7\right)$

$\frac{1}{4}\left(\frac{2}{5}\right) = \frac{2}{8}$

$= -\frac{2}{5}x^4 + \frac{3}{3}x^3 + \frac{3}{8}x^2$

$= -\frac{2}{5}x^4 + x^3 + \frac{3}{8}x^2$

6.1 p347 even

(38) $(0.06x^5 - 0.2x^3 + x + 0.05) + (-0.04x^5 + 2x^4 - 0.8x + 0.5)$

$0.02x^5 + 2x^4 - 0.2x^3 - 0.2x + 0.55$

(40) $13x^4 - x^2$

$7x^4 + 2x^2$

$20x^4 + x^2$

(42) $7x^2 - 5x - 6$

$-9x^2 + 4x + 6$

$-2x^2 - x$

(44) $\frac{1}{4}x^4 - \frac{2}{3}x^3 - 5$

$-\frac{1}{2}x^4 + \frac{1}{5}x^3 + 4.7$

$-\frac{1}{4}x^4 - \frac{7}{15}x^3 - 0.3$

$\frac{1}{4} - \frac{1}{2}\left(\frac{2}{2}\right)$

$= \frac{1}{4} - \frac{2}{4}$

$= -\frac{1}{4}$

$-\frac{2}{3} + \frac{1}{5}\left(\frac{3}{3}\right)$

$-\frac{10}{15} + \frac{3}{15}$

$= -\frac{7}{15}$

(44) $\frac{1}{3}x^9 - \frac{1}{5}x^5 - 2.7$

$-\frac{3}{4}x^9 + \frac{2}{3}x^5 + 1$

$-\frac{5}{12}x^9 + \frac{7}{15}x^5 - 1.7$

$-\frac{1}{5} + \frac{2}{3}$

$= -\frac{1}{5}\left(\frac{3}{3}\right) + \frac{2}{3}\left(\frac{5}{5}\right)$

$= -\frac{3}{15} + \frac{10}{15}$

$= \frac{7}{15}$

$\frac{1}{3} - \frac{1}{4}$

$= \frac{1}{3}\left(\frac{4}{4}\right) - \frac{3}{4}\left(\frac{3}{3}\right)$

$= \frac{4}{12} - \frac{9}{12}$

$= -\frac{5}{12}$

6.1 p54 review

(46) $y^3 + y^2 - 7y + 9$

$-y^3 - 6y^2 - 8y + 11$

$-5y^2 - 15y + 20$

(48) $-4y^3 + 6y^2 - 8y + 11$

$2y^3 + 0y^2 + 9y - 3$

$-2y^3 + 6y^2 + y + 8$

(50) $7y^5 - 3y^3 + y^2$

$0y^5 + 2y^3 - y^2 - 4y - 3$

$7y^5 - y^3 - 4y - 3$

(52) $7y^2 - 11y - 6$

$8y^2 + 3y + 4$

$-9y^2 - 5y + 2$

$6y^2 - 13y$

(54) $7.9x^3 - 6.8x^2 + 3.3$

$6.1x^3 - 2.2x^2 + 7$

$0x^3 + 4.3x^2 - 5$

$14x^3 - 4.7x^2 + 5.3$

6.1 p347 evens

(56) $(x-2)-(-7x+9)$

$= x-2-7x+9$

$= x-7x-2+9$

$= -6x+7$

(58) $(3x^2-8x-2)-(11x^2+5x+4)$

$= 3x^2-11x^2-8x-5x-2-4$

$= -8x^2-13x-6$

(60) $(3x^2-2x)-(5x^2-6x)$

$= 3x^2-5x^2-2x+6x$

$= -2x^2+4x$

(62) $(x^2-5x+3)-(x^2-6x-8)$

$= x^2-x^2-5x+6x+3+8$

$= x+11$

(64) $(y-2)-(7y-9)$

$= y-7y-2+9$

$= -6y+7$

(66) $(5y^3+y^2-3y-8)-(y^2-8y+11)$

$= 5y^3+y^2-y^2-3y+8y-8-11$

$= 5y^3+5y-9$

(68) $(2n^2-n^7-6)-(2n^3-n^7-8)$

$= 2n^2-2n^3-n^7+n^7-6+8$

$= 2n^2-2n^3+2$

$= -2n^3+2n^2+2$

(70) $(y^5-y^3)-(y^4-y^2)$

$= y^5-y^3-y^4+y^2$

$= y^5-y^4-y^3+y^2$

(72) $(-3x^6+3x^4-x^2)-(-x^6+2x^4+2x^2)$

$= -3x^6+x^6+3x^4-2x^4-x^2-2x^2$

$= -2x^6-x^4-3x^2$

6.1 p348 even

$-\frac{1}{3}\left(\frac{3}{2}\right)$	$\frac{1}{2}\left(\frac{3}{2}\right)$
$-\frac{2}{6}$	$\frac{3}{4}$

(74) $\left(\frac{3}{8}x^2 - \frac{1}{3}x - \frac{1}{4}\right) - \left(-\frac{1}{8}x^2 + \frac{1}{2}x - \frac{1}{4}\right)$

$= \frac{3}{8}x^2 + \frac{1}{8}x^2 - \frac{2}{6}x - \frac{3}{6}x - \frac{1}{4} + \frac{1}{4}$

$= \frac{4}{8}x^2 - \frac{5}{6}x$

$= \boxed{\frac{1}{2}x^2 - \frac{5}{6}x}$

(76) $4x+2$

$-(3x-5)$

$\boxed{x+7}$

(78) $9y^2 - 6$

$-(-5y^2 + 2)$

$\boxed{14y^2 - 8}$

(80) $3x^5 - 5x^3 + 6$

$-(7x^5 + 4x^3 - 2)$

$\boxed{-4x^5 - 9x^3 + 8}$

(82) $3y^4 - 4y^2 + 7$

$-(-5y^4 - 6y^2 - 13)$

$\boxed{8y^4 + 2y^2 + 20}$

(84) $4y^3 + 5y^2 + 7y + 11$

$-(-5y^3 + 6y^2 - 9y - 3$

$\boxed{9y^3 - y^2 + 16y + 14}$

(86) $5y^6 - 3y^3 + 2y^2$

$-(-y^3 - y^2 - y - 1)$

$\boxed{5y^6 - 2y^3 + 3y^2 + y + 1}$

(88) $0.04x^3 - 0.03x^2 + 0.05x$

$-(0.02x^3 - 0.06x^2 - x)$

$\boxed{0.06x^3 + 0.03x^2 + 1.05x}$

(90)

x	y
-3	7
-2	2
-1	-1
0	-2
1	-1
2	2

$y = x^2 - 2$