

Key

17 p. 99 # 9-19 odd, 21-26 (combine like terms), 31-41

A#7 27 p. 106 # 33-41 odd

18 p. 99 # 9-19 odd, 21-26, 31-41

9. $(p-3)(-8)$	11. $2(2r-3)$	13. $6v(v+1)$
$p(-8) - 3(-8)$	$2(2r) - 2(3)$	$6v(v) + 6v(1)$
$-8p - (-24)$	$4r - 6$	$6v^2 + 6v$
$-8p + 24$	$4r + (-6)$	

15. $-2x(3-x)$	17. $\frac{1}{2}(\frac{1}{2}m-4)$	19. $\frac{2}{3}(6n-9)$
$-2x(3) - (-2x)(x)$	$\frac{1}{2}(\frac{1}{2}m) - \frac{1}{2}(4)$	$\frac{2}{3}(6n) - \frac{2}{3}(9)$
$-6x - (-2x^2)$	$\frac{1}{4}m - 2$	$4n - 6$
$-6x + 2x^2$	$\frac{1}{4}m + (-2)$	$4n + (-6)$
$2x^2 + (-6x)$		

21. $\underline{-7} + \underline{13x} + \underline{2x} + \underline{8}$	22. $9 + 7y - 2 - 5y$	23. $7x^2 - 10 - 2x^2 + 5$
$15x + 1$	$9 + 7y + (-2) + (-5y)$	$7x^2 + (-10) + (-2x^2) + 5$
	$2y + 7$	$5x^2 + (-5)$

24. $-3y^2 + 3y^2 - 7 + 9$	25. $2 + 3xy - 4xy + 6$	26. $6xy - 11xy + 2xy - 4xy + 7xy$
$-3y^2 + 3y^2 + (-7) + 9$	$2 + 3xy + (-4xy) + 6$	$6xy + (-11xy) + 2xy + (-4xy) + 7xy$
$2$	$-xy + 8$	$0$

31. $(4a-1)2 + a$	32. $3(2-c) - c$	33. $6r + 2(r+4)$
$4a(2) - 1(2) + a$	$3(2) - 3(c) - c$	$6r + 2(r) + 2(4)$
$8a - 2 + a$	$6 - 3c - c$	$6r + 2r + 8$
$8a + (-2) + a$	$6 + (-3c) + (-c)$	$8r + 8$
$9a + (-2)$	$-4c + 6$	

Key

$$34. 15x - (x - 4)$$

$$15x + (-1)(x + (-4))$$

$$\underline{15x} + \underline{(-x)} + \underline{4}$$

$$\boxed{14x + 4}$$

$$35. 3(m+5) - 10$$

$$3(m) + 3(5) + (-10)$$

$$\underline{3m} + \underline{15} + \underline{(-10)}$$

$$\boxed{3m + 5}$$

$$36. -6(v+1) + v$$

$$-6(v) + (-6)(1) + v$$

$$\underline{-6v} + \underline{(-6)} + \underline{v}$$

$$\boxed{-5v + (-6)}$$

$$37. 7(w-5) + 3w$$

$$7(w) - 7(5) + 3w$$

$$7w - 35 + 3w$$

$$\underline{7w} + \underline{(-35)} + \underline{3w}$$

$$\boxed{10w + (-35)}$$

$$38. 6(5-z) + 2z$$

$$6(5) - 6(z) + 2z$$

$$30 - 6z + 2z$$

$$\underline{30} + \underline{(-6z)} + \underline{2z}$$

$$\boxed{-4z + 30}$$

$$39. (5-3)(-2) + 17s$$

$$5(-2) - 3(-2) + 17s$$

$$-25 - (-6) + 17s$$

$$\underline{-25} + \underline{6} + \underline{17s}$$

$$\boxed{15s + 6}$$

$$40. P = 2L + 2W \quad \boxed{\phantom{00}} \begin{matrix} 5 \\ v+3 \end{matrix}$$

$$P = 2(v+3) + 2(5)$$

$$P = 2(v) + 2(3) + 2(5)$$

$$P = \underline{2v} + \underline{6} + \underline{10}$$

$$\boxed{P = 2v + 16}$$

$$A = LW$$

$$A = 5(v+3)$$

$$A = 5(v) + 5(3)$$

$$\boxed{A = 5v + 15}$$

$$41. P = 2L + 2W \quad \boxed{\phantom{00}} \begin{matrix} 9 \\ 8-12w \end{matrix}$$

$$P = 2(8-12w) + 2(9)$$

$$P = 2(8) - 2(12w) + 2(9)$$

$$P = 16 - 24w + 18$$

$$P = \underline{16} + \underline{(-24w)} + \underline{18}$$

$$\boxed{P = -24w + 34}$$

$$A = LW$$

$$A = 9(8-12w)$$

$$A = 9(8) - 9(12w)$$

$$A = 72 - 108w$$

$$A = 72 + (-108w)$$

$$\boxed{A = -108w + 72}$$

Key

A #7

② p. 106 # 33-41 odd

33.  $\frac{6x - 14}{2}$

$$\frac{6x + (-14)}{2}$$

$$\frac{6x}{2} + \frac{(-14)}{2}$$

$$\boxed{3x + (-7)}$$

35.  $\frac{9z - 6}{-3}$

$$\frac{9z + (-6)}{-3}$$

$$\frac{9z}{-3} + \frac{(-6)}{-3}$$

$$\boxed{-3z + 2}$$

37.  $\frac{5 - 25q}{10}$

$$\frac{5 + (-25q)}{10}$$

$$\frac{5}{10} + \frac{(-25q)}{10}$$

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

$$\boxed{-\frac{5}{2}q + \frac{1}{2}}$$

39.  $\frac{-24a - 10}{-8}$

$$\frac{-24a + (-10)}{-8}$$

$$\frac{-24a}{-8} + \frac{(-10)}{-8}$$

$$\boxed{3a + \frac{5}{2}}$$

41.  $\frac{36 - 27c}{9}$

$$\frac{36 + (-27c)}{9}$$

$$\frac{36}{9} + \frac{(-27c)}{9}$$

$$4 + (-3c)$$

$$\boxed{-3c + 4}$$