

## H.W

Q1

$$a) 2(x+3) + 3(x+5) = 2x + 6 + 3x + 15 = 5x + 21$$

$$b) 5(x+2) + 4(x+8) = 5x + 10 + 4x + 32 = \\ = 9x + 42$$

$$c) 3(y+4) + 7(y+7) = 3y + 12 + 7y + 49 = 10y + 61$$

$$d) 6(x-5) + 3(x+6) = 6x - 30 + 3x + 18 = 9x - 12$$

$$e) 3(x+4) + 2(x-5) = 3x + 12 + 2x - 10 = 5x + 2$$

$$f) 2(3y+7) + 4(2y+5) = 6y + 14 + 8y + 20 = 14y + 34$$

$$g) 3(5x+6) + 5(3x+2) = 15x + 18 + 15x + 10 = \\ = 30x + 28$$

$$h) 2(3x+4) - 3(x+2) = 6x + 8 - 3x - 6 = 3x + 2$$

$$i) 4(2y-7) + 3(2y-5) = 8y - 28 + 6y - 15 = \\ = 14y - 43$$

$$j) 5(x+4) - 2(x-3) = 5x + 20 - 2x + 6 = \\ = 3x + 26$$

$$k) 3(5 - 2x) + 4(2x - 1) = 15 + 6x + 8x - 4 = \\ = 11 + 2x$$

$$l) 8(4x - 5) - 3(8 - 5x) = 32x - 40 - 24 + 15x \\ = 47x - 64$$

$$m) 2 + 3(x + 2) = 2 + 3x + 6 = 8 + 3x$$

$$n) 7 + 3(x + 5) = 7 + 3x + 15 = 22 + 3x$$

$$p) 8 - 5(x + 2) = 8 - 5x - 10 = -2 - 5x$$

$$q) 6x - (2 + x) = 6x - 2 + x = 7x - 2$$

$$r) 4x - (2x - 5) = 4x - 2x + 5 = 2x + 5$$