3.4 Homework

Question 1

Write each of the following in as simple a form as possible and without any brackets.

(i) $2(f+3)$

(ii) $3(2d-3)$

(iii) $h(h+5)$

(iv) $3(4g-2t)$

(v) $8(2a+\frac{1}{2})$

(vi) $3a(2d+4a)$

(vii) $2(3x+y)+3(x+4y)$

(viii) $5(2x-3t)+3(4x-2t)$

(ix) $3(2x+4y)-2(x+5y)$

(x) $2(3p+2t)-3(p-4t)$

Question 2

Solve the following equations.

(i) $3x + 5 = 11$

(ii) $3y - 2 = 4$

(iii) $3y - 1.5 = 9$

(iv) $10 + 3x = 4$

(v) $6 - 5x = 21$

(vi) $4 (5t + 8) = 12$

(vii) $2 (4x + 3) + 3 (x + 4) = 40$

(viii) $4 (3x + 1) - 2 (2x + 3) = 22$

(ix) $2 (5x - 7) = 3 (2x + 1)$

(x) $4 (3x + 2) = 3 (2x + 4)$

Question 3

(i) When a number is doubled and then added to 47, the result is 73.
Find the number.

(ii) I think of a number, multiply it by 7 and then add 5.
The result is 61.
What was the number ?

(iii) The sum of three consecutive numbers is 78.
List the three numbers.

(iv) The difference between two numbers is 14.
Find the numbers if their sum is 40.