

11.7 Homework

Question 1

Factorise;

(i) $x^2 + x - 30$

Multiply to give 30, subtract to give 1

(ii) $x^2 + 8x - 9$

Multiply to give 9, subtract to give 8

(iii) $x^2 + 7x - 44$

Multiply to give 44, ...

(iv) $x^2 + 10x - 24$

Multiply to give 24, ...

(v) $x^2 + 10x - 39$

(vi) $x^2 + 9x - 22$

(vii) $x^2 + 5x - 14$

(viii) $x^2 + 3x - 28$

(ix) $x^2 + 4x - 5$

(x) $x^2 + 3x - 54$

Question 2

Factorise;

(i) $x^2 - 4x - 12$

Multiply to give 12, subtract to give 4

(ii) $x^2 - 4x - 5$

Multiply to give 5, ...

(iii) $x^2 - 3x - 70$

(iv) $x^2 - 4x - 77$

(v) $x^2 - 3x - 28$

(vi) $x^2 - 3x - 40$

(vii) $x^2 - 5x - 14$

(viii) $x^2 - 4x - 32$

(ix) $x^2 - 3x - 10$

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

Question 3 (Hard potatoes)

Factorise;

(i) $x^2 - 9x - 36$

(ii) $x^2 + 20x - 44$

(iii) $x^2 + 9x - 70$

(iv) $x^2 - 9x - 52$

(v) $x^2 - 14x - 72$

(vi) $x^2 + 30x - 64$