Quadratic Equations 1

Solve the following equations:

1)
$$x^2 - 6x - 16 = 0$$
 2) $x^2 + x - 42 = 0$ 3) $x^2 = 8x + 20$

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$$x^2 + x - 42 = 0$$

3)
$$x^2 = 8x + 20$$

4)
$$x^2 + 3x = 40$$

$$5) x^2 = 8x - 15$$

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$$x^2 + 3x = 40$$
 5) $x^2 = 8x - 15$ 6) $x^2 + 12x + 32 = 0$ 7) $2x^2 + 7x + 3 = 0$ 8) $2x^2 + 3x - 2 = 0$ 9) $2x^2 = 3x + 2$

7)
$$2x^2 + 7x + 3 = 0$$

$$3) 2x^2 + 3x - 2 = 0$$

9)
$$2x^2 = 3x + 2$$

10)
$$3x^2 - 13x = 10$$

Quadratic Equations 2

Solve:

1)
$$x^2 = 8x - 13$$

$$2) x^2 + 4x = 5$$

1)
$$x^2 = 8x - 15$$
 2) $x^2 + 4x = 5$ 3) $x^2 - 5x = 36$

4)
$$x^2 + 10x + 16 = 0$$
 5) $x^2 = x + 20$ 6) $x^2 = 9x - 18$

$$(x^2 = x + 20)$$

6)
$$x^2 = 9x - 18$$

Quadratic Equations 3

1) Solve by using the formula, giving answers to 2 decimal places:

(a)
$$3x^2 + 5x - 7 = 0$$
 (b) $2x^2 = 4x + 13$

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2) Solve using the formula. Then check your answers by factorisation:

(a)
$$x^2 - 19x + 60 = 0$$
 (b) $x^2 + 8x = 48$

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