HomeWork 1

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1 Homework question 1

$$x - 2)(x + 4) = 7$$
$$x^2 + 2x - 8 = 7$$
$$x^2 + 2x - 15 = 0$$
$$(x + 5)(x - 3) = 0$$

Therefore $x = -5$ or $x = 3$

2 Homework question 2

$$(x - 3)^2 = 4$$
$$(x - 3) = 2$$

Therefore $x = -5$ or $x = 1$

3 Homework question 3

$$\sqrt{(x - 2)} + 2 = 4$$
$$\sqrt{(x - 2)} = 2$$
$$\pm(x - 2) = 4$$

Therefore $x = -2$ or $x = 6$