

total 7 puntos.

Guía 3

Ejercicio 6, ítem I.

$$x^2 - 10x - 65 = 0$$

$$\underbrace{x^2 - 10x + 5^2}_{\text{completing the square}} - 5^2 - 65 = 0$$

$$(x - 5)^2 - 25 - 65 = 0$$

$$(x - 5)^2 - 90 = 0$$

$$(x - 5)^2 = 90$$

$$x - 5 = \pm \sqrt{90}$$

$$x - 5 = \pm 3\sqrt{10}$$

$$x = 5 \pm 3\sqrt{10}$$

$$\therefore x_1 = 5 + 3\sqrt{10}$$

$$x_2 = 5 - 3\sqrt{10}$$