



### Problema 1



Para cercar la finca rectangular de  $750\text{ m}^2$  ubicada en el colegio Pbr Horacio G. G se han utilizado  $110\text{ m}$  de cerca. Calcula las dimensiones de la finca. Teniendo en cuenta

$$x^2 - 55x + 750 = 0$$

$$a = \boxed{\phantom{0}}$$

$$b = \boxed{\phantom{0}}$$

$$c = \boxed{\phantom{0}}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \sqrt{(\boxed{\phantom{0}})^2 - \boxed{\phantom{0}}(\boxed{\phantom{0}})(\boxed{\phantom{0}})}}{\boxed{\phantom{0}}(\boxed{\phantom{0}})}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \sqrt{\boxed{\phantom{0}} \boxed{\phantom{0}} \boxed{\phantom{0}} \boxed{\phantom{0}}}}{\boxed{\phantom{0}}}$$

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$$x = \frac{-\boxed{\phantom{0}} \pm \boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$x_1 = \frac{-\boxed{\phantom{0}} + \boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \boxed{\phantom{0}}$$

$$x_2 = \frac{-\boxed{\phantom{0}} - \boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \boxed{\phantom{0}}$$



## Problema 2



En una finca de cacao el costo mensual de producir  $x$  unidades está dado por la ecuación:  $c(x) = 10x^2 - 100x - 2.000$  ¿cuántos productos se pueden producir para

$$a = \boxed{\phantom{0}}$$

$$b = \boxed{\phantom{0}}$$

$$c = \boxed{\phantom{0}}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \sqrt{(\boxed{\phantom{0}})^2 - \boxed{\phantom{0}}(\boxed{\phantom{0}})(\boxed{\phantom{0}})}}{\boxed{\phantom{0}}(\boxed{\phantom{0}})}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \sqrt{\boxed{\phantom{0}}\boxed{\phantom{0}}\boxed{\phantom{0}}\boxed{\phantom{0}}}}{\boxed{\phantom{0}}}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \sqrt{\boxed{\phantom{0}}}}{\boxed{\phantom{0}}}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$x_1 = \frac{-\boxed{\phantom{0}} + \boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \boxed{\phantom{0}}$$

$$x_2 = \frac{-\boxed{\phantom{0}} - \boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \boxed{\phantom{0}}$$



### Problema 3



En una finca de producción de hortalizas el costo mensual de producir  $x$  unidades está dado por la ecuación:  $c(x) = 8x^2 - 6x - 500$  ¿cuántas hortalizas se pueden producir para un costo de 15.000 pesos?

$$a = \boxed{\phantom{0}}$$

$$b = \boxed{\phantom{0}}$$

$$c = \boxed{\phantom{0}}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-(\boxed{\phantom{0}}) \pm \sqrt{(\boxed{\phantom{0}})^2 - (\boxed{\phantom{0}})(\boxed{\phantom{0}})(\boxed{\phantom{0}})}}{(\boxed{\phantom{0}})(\boxed{\phantom{0}})}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \sqrt{\boxed{\phantom{0}} \cdot \boxed{\phantom{0}} \cdot \boxed{\phantom{0}}}}{\boxed{\phantom{0}}}$$

$$x = \frac{-\boxed{\phantom{0}} \pm \sqrt{\boxed{\phantom{0}}}}{\boxed{\phantom{0}}}$$

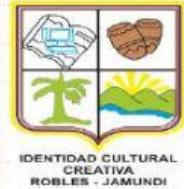
$$x = \frac{-\boxed{\phantom{0}} \pm \boxed{\phantom{0}}}{\boxed{\phantom{0}}}$$

$$x_1 = \frac{-\boxed{\phantom{0}} + \boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \boxed{\phantom{0}}$$

$$x_2 = \frac{-\boxed{\phantom{0}} - \boxed{\phantom{0}}}{\boxed{\phantom{0}}} = \boxed{\phantom{0}}$$



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