

SABERES PREVIOS: ECUACIONES TRIGONOMÉTRICAS

3. DETERMINA LOS VALORES DE LAS ECUACIONES CUADRÁTICAS POR FACTORIZACIÓN

Nota: Si la ecuación cuadrática no está ordenada debes ordenarla $ax^2 + bx + c = 0$

a) $x^2 - 3x = 0$ $x_1 = \underline{\hspace{2cm}}$ $x_2 = \underline{\hspace{2cm}}$

b) $x^2 - 16 = 0$ $x_1 = \underline{\hspace{2cm}}$ $x_2 = \underline{\hspace{2cm}}$

c) $3x^2 - 14 = -x$ $x_1 = \underline{\hspace{2cm}}$ $x_2 = \underline{\hspace{2cm}}$

Factores de $x^2 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

Factores de $-12 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

d) $12x + 27 = -x^2$ $x_1 = \underline{\hspace{2cm}}$ $x_2 = \underline{\hspace{2cm}}$

Factores de $x^2 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

Factores de $-12 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

e) $2x^2 + 7x = 30$

$x_1 = \underline{\hspace{2cm}} \quad x_2 = \underline{\hspace{2cm}}$

Factores de $2x^2 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

Factores de $-30 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

k) $3x^2 - 8x = -5$

Factores de $3x^2 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

Factores de $5 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

l) $-7x - 20 = -3x^2$

Factores de $3x^2 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

Factores de $5 = (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}}); (\underline{\hspace{1cm}})(\underline{\hspace{1cm}})$

$$f) 6x^2 + x - 2 = 0$$

$$3x^2 - 11x = 4$$

$$3x^2 + 10 = 11x$$