Actividad #10

Apellidos y Nombres: Guerrero Cumbicos Jesus Ernesto

Carrera y Paralelo: Tecnologías de la Información 1° A

1) $3x^2 - 5x + 2 = 0$

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

$x(3x-2) - (3x-2) = 0$

$(3x-2)(x-1) = 0$

$3x - 2 = 0$

$3x = 2$

$x = \frac{2}{3}$

$x - 1 = 0$

$x = 1$

2. $x^2 + 11x = -24$

$x^2 + 11x + 24 = 0$

$x^2 + 8x + 3x + 24 = 0$

$x(x+8) + 3(x+8) = 0$

$(x+8)(x+3) = 0$

$x + 3 = 0$

$x = -3$

$x + 8 = 0$

$x = -8$

3. $12x - 4 - 9x^2 = 0$

$-12x + 4 + 9x^2 = 0$

$9x^2 - 12x + 4 = 0$

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

$3x - 2 = 0$

$3x = 2$

$x = \frac{2}{3}$

4) $4x - \frac{13}{x} = \frac{3}{2}$

$4x - \frac{13}{x} - \frac{3}{2} = 0$

$\frac{8x^2 - 26 - 3x}{2x} = 0$

$8x^2 - 26 - 3x = 0$

$8x^2 - 3x - 26 = 0$

$8x^2 + 13x - 16x - 26 = 0$

$x(8x+13) - 2(8x+13) = 0$

$(8x+13)(x-2) = 0$

$8x + 13 = 0$

$x = -\frac{13}{8}$

$x - 2 = 0$

$x = 2$

5. $5x(x-1) - 2(2x^2 - 7x) = -8$

$5x^2 - 5x - 4x^2 + 14x = -8$

$x^2 + 9x = -8$

$x^2 + 9x + 8 = 0$

$x^2 + 8x + x + 8 = 0$

$x(x+8) + x + 8 = 0$

$(x+8)(x+1) = 0$

$x + 8 = 0$

$x = -8$

$x + 1 = 0$

$x = -1$