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$$76) \quad 8 + 5(x-3) = 9(x+1)$$

$$8 + 5x - 15 = 9x + 9$$

$$5x - 9x = 9 - 8 + 15$$

$$-4x = 16$$

$$x = \frac{16}{-4}$$

$$x = -4$$

$$77) \quad 2(x-4) = 3(x-6) + 2x$$

$$2x - 8 = 3x - 18 + 2x$$

$$2x - 3x - 2x = -18 + 8$$

$$-3x = -10$$

$$x = \frac{-10}{-3}$$

$$x = \frac{10}{3}$$

$$78) \quad 4x + 7(2x-1) = x + 163$$

$$4x + 14x - 7 = x + 163$$

$$4x + 14x - x = 163 + 7$$

$$17x = 170$$

$$x = \frac{170}{17}$$

$$x = 10$$

$$79) 14x + 3(8x - 3) - 295 = 0$$

$$14x + 24x - 9 - 295 = 0$$

$$14x + 24x = 9 + 295$$

$$38x = 304$$

$$x = \frac{304}{38}$$

$$x = 8$$

$$80) 3x - 4(x - 2) = x - 10$$

$$3x - 4x + 8 = x - 10$$

$$3x - 4x - x = -10 - 8$$

$$-2x = -18$$

$$x = \frac{-18}{-2}$$

$$x = 9$$

Hacer de la 81 \rightarrow

$$81) 6(x + 1) - 4x = 5x - 9 - x$$

$$6x + 6 - 4x = 5x - 9 - x$$

$$6x - 4x - 5x + x = -9 - 6$$

$$-2x = -15$$

$$x = \frac{-15}{-2}$$

$$x = \frac{15}{2}$$

Simplificar

$$82) 18x - 13 = 8[-4(3x-1)] + 2$$

$$18x - 13 = 8 - 12x + 4 + 2$$

$$18x + 12x = 8 + 4 + 2 + 13$$

$$30x = 27$$

$$x = \frac{27}{30}$$

$$x = \frac{9}{10}$$

$$- = -1$$

$$83) 3x + 1 = 3[-(2-3x)] - (x-1)$$

$$3x + 1 = 3 - 2 + 3x - x + 1$$

$$3x - 3x + x = 3 - 2 + 1 - 1$$

$$x = 1$$

$$84) 2(2+2x) - (6-7x) = 1 - (1+4x)$$

$$4 + 4x - 6 + 7x = 1 - 1 - 4x$$

$$4x + 7x + 4x = 1 - 1 - 4 + 6$$

$$15x = 2$$

$$x = \frac{2}{15}$$

$$85) 5x - (1-2x) = -(x-1) - 4(1-x)$$

$$5x - 1 + 2x = -x + 1 - 4 + 4x$$

$$5x + 2x + x - 4x = 1 - 4 + 1$$

$$4x = -2$$

$$x = \frac{-2}{4}$$

$$x = -\frac{1}{2}$$

$$86) -3 + 2(x+1) = 3x + 2[-2(3+2x)]$$

$$\underline{-3} + 2x + 2 = 3x + 2 - 6 - 4x$$

$$2x - 3x + 4x = 2 - 6 + 3 - 2$$

$$3x = -3$$

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

$$x = -1$$

$$87) 3x + 5(2x+1) = 8 - 3(4-5x)$$

$$3x + 10x + 5 = 8 - 12 + 15x$$

$$3x + 10x - 15x = 8 - 12 - 5$$

$$-2x = -9$$

$$x = \frac{-9}{-2}$$

$$x = \frac{9}{2} + 1$$

$$88) 5 - (4x+6) = 3x + (7-4x)$$

$$\underline{5} - 4x - \underline{6} = 3x + 7 - 4x$$

$$-4x - 3x + 4x = 7 - 5 + 6$$

$$-3x = 8$$

$$x = \frac{8}{-3}$$

$$89) x - 7(2x+1) = 2(6-5x) - 13$$

$$x - 14x - 7 = 12 - 10x - 13$$

$$x - 14x + 10x = 12 - 13 + 7$$

$$\textcircled{-3}x = 6$$

$$x = \frac{6}{-3}$$

$$x = -2$$

Para casa:
de la 90 a
la 94