LINEAR EQUATIONS - 2º ESO

Exercise 1: (0.5 points) Solve the following equations:

a) $10x = 5$

b) $-x = -7$

Exercise 2: (4 points) Solve:

a) $3x - 8 + 4 + 5x - 2x = x - 3 + 2x - 1 - 9$

b) $2(x-5) + 3(1-x) = 7(x+2)$

c) $7 - 2(5x-4) = 3x - (3-2x)$

d) $5(2x-3) - 4(x-7) = 3x + 3(x-7)$

Exercise 3: (2 points) Solve these equations:

a) $\frac{3x-2}{5} - \frac{x-4}{2} = x - \frac{x+1}{4}$

b) $\frac{3(x-5)}{4} - \frac{4(2-3x)}{6} = 1 + \frac{x}{3}$

Exercise 4: (1 point) La edad de una oveja es el cuádruple que la de su cordero, pero dentro de 6 años sólo será el doble. ¿Cuántos años tienen cada uno?

Exercise 5: (1 point) The half of a number minus one equals the third part of that number plus two. Find the number.

Exercise 6: (1 point) The length of a rectangle is seven cm longer than the breadth. If the perimeter is 54 cm, find the dimensions of the rectangle.

Exercise 7: (0.5 points) Write an equation with an infinite number of solutions. How that's equation called?