

Maths Assessment 1

Due: 1.45 pm 04/03/21

Question 1.

a) ^{simplify}
 $2xy - 4xz + yz - 2zx + 3yx$
 $= 5xy - 6xz + yz$
 $= x(5y - 6z) + yz$

b) Solve for x

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

$$5x - 5 + 6x + 18 - 2 = 12x - 4 + 8x + 6$$

$$10x + 11 = 20x + 2$$

$$11 = 10x + 2$$

$$9 = 10x$$

$$x = 0.9$$

c) Solve for x

$$\frac{x+4}{3} = \frac{14-5x}{2}$$

$$6\left(\frac{x+4}{3}\right) = 6\left(\frac{14-5x}{2}\right)$$

$$2x + 8 = 42 - 15x$$

$$8 = 42 - 17x$$

$$-34 = -17x$$

$$x = 2$$