

Simplify the following:

$$12x + 3a + 2x + 5a$$

5

$$12x + 3a + 2x + 5a$$

$$12x + 8a + 2x$$

$$14x + 8a$$

55
55

100%

$$3x^2 + 5y + 2x^2 + 4y + 3x$$

5

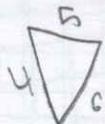
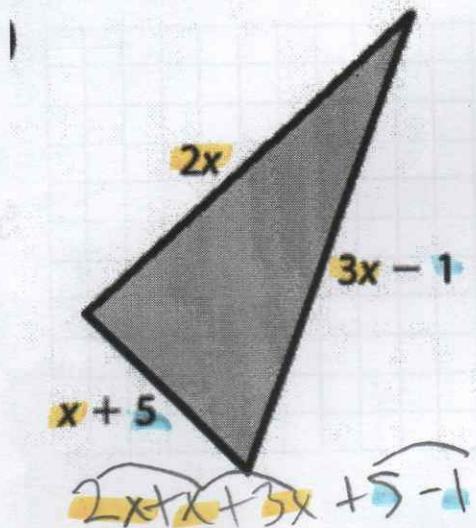
$$3x^2 + 5y + 2x^2 + 4y + 3x$$

$$3x^2 + 5y + 4y + 3x$$

$$5x^2 + 9y + 3x$$

Q2

Find an expression for the perimeter of this triangle



$$\frac{4+6x}{5}$$

$$2x + x + 5 + 3x + 5 - 1$$

$$2x + x + 5 + 3x - 1$$

$$6x + 5 - 1$$

$$6x + 4$$

Q3 Simplify each of the following

(5a)(3a)

$$(5a)(3a)$$

$$15a^2$$

5

$5(2x+y)$

$$5(2x+y)$$

$$10x+5y$$

5

$5(2x+4) + 3(3x+2)$

$$5(2x+4) + 3(3x+2)$$

$$10x+20+9x+6$$

$$19x+26$$

$$19x+26$$

Q4 Solve the following equations

$$2x+1 = 9$$

S

$$2x+1 = 9$$

$$\frac{2x}{2} = \frac{8}{2}$$

$$1x = 4$$

$$-3x -1 \quad -3x -1$$

$$5x+1 = 3x+9$$

S

$$5x+1 = 3x+9$$

$$2x+1 = 9$$

$$\frac{2x}{2} = \frac{8}{2}$$

$$1x = 4$$

$$6(1+2x) = 5(3x-1) - 4$$

S

$$6(1+2x) = 5(3x-1) - 4 \quad \frac{-3x = -15}{+3 \quad +3}$$

$$6+12x = 15x - 5 - 4$$

$$1x = 5$$

$$6+12x = 15x - 9$$

✓

$$12x = 15x - 15$$

$$-3x = -15$$

Q5

13 + 13 + 3

2, 5, 8, 11, 14.....

Write the next three terms in the above pattern.

2, 5, 8, 11, 14, 17, 20, 23

5

Is this a linear or non Linear pattern? Explain your answer

This is a linear pattern because it goes up by +3 each time

5