

Linear Expressions

Question 1

Is the expression Linear or Nonlinear?

Click on each expression and choose from the drop down list

$$5m - 3m + 4$$

$$2x^3 + 4x$$

$$2x + 1$$

$$7pq$$

Question 2

Add the Linear Expressions

Type your answer in the box. Don't type any spaces between your terms in your answer

$$\begin{array}{r} 3x + 5 \\ 5x + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6x - 1 \\ -2x + 4 \\ \hline \end{array}$$

Question 3

Subtract the Linear Expressions

Choose the correct steps from the dropdown list

$$(7x - 3) - (2x + 3)$$

Step 1: Arrange like terms in COLUMNS (vertically)

Step 2: Add the additive inverse

Step 3: Add the columns to find the final answer

Linear Expressions

Question 4

Find the GCF for each of the following pairs of monomials

Type your answers in the boxes provided. In the GCF box type only the final answer.

$$5x, 15xy$$

$$5x = 5 \cdot x$$

$$15x = 3 \cdot 5 \cdot x$$

GCF =

$$12, 24a$$

Type your prime factors from small to big and variables at the end

$$12 = \square \cdot \square \cdot \square$$

$$24a = \square \cdot \square \cdot \square \cdot \square \cdot \square$$

GCF =

Question 5

Match the linear expression with its factors

$$3x + 9$$

$$4x - 13$$

$$4x + 6$$

$$3x - 6$$

$$4x - 8$$

$$2x + 4$$

$$3(x - 2)$$

$$4(x - 2)$$

$$2(x + 2)$$

$$2(2x + 3)$$

Cannot be factored

		$x + 3$			
		x	1	1	1
3	1	x	1	1	1
	1	x	1	1	1
	1	x	1	1	1