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

$3x + 9$	$3(x - 2)$
$4x - 13$	$4(x - 2)$
$4x + 6$	$2(x + 2)$
$3x - 6$	$2(2x + 3)$
$4x - 8$	Cannot be factored
$2x + 4$