

Exercise 6A

Q1

Answer:

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and adding column-wise, we get:

8ab -5ab3ab-ab5ab

Q2

Answer:

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and adding column-wise, we get:

7x-3x5x-x-2x6x

Q3

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and adding column-wise, we get:

3a-4b+4c2a + 3b - 8ca-6b+c6a - 7b - 3c

Q4

Answer:

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and adding column-wise, we get:

5x - 8y + 2z-2x-4y+3z-x+6y-z3x - 3y - 2z5x-9y+2z

Q5

Answer:

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and adding column-wise, we get:

$$6ax - 2by + 3cz$$

 $-11ax + 6by - cz$
 $-2ax - 3by + 10cz$
 $-7ax + by + 12cz$

Q6

On arranging the terms of the given expressions in the descending powers of $oldsymbol{x}$ and adding columnwise:

$$2x^{3} - 9x^{2} + 0x + 8$$

$$0x^{3} + 3x^{2} - 6x - 5$$

$$7x^{3} + 0x^{2} - 10x + 1$$

$$-4x^{3} - 5x^{2} + 2x + 3$$

$$5x^{3} - 11x^{2} - 14x + 7$$

Q7

Answer:

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and adding column-wise:

$$\begin{array}{c} 6p+\ 4q-r+3\\ -5p+\ 0q+2r-6\\ -7p+11q+2r-1\\ \hline 0p+\ 2q-3r+4\\ \hline -6p+17q+0r+0\\ =-6p+17q \end{array}$$

Q8

Answer:

On arranging the terms of the given expressions in the descending powers of $m{x}$ and adding columnuities:

$$4x^2 + 4y^2 - 7xy - 3$$

$$x^2 + 6y^2 - 8xy + 0$$

$$2x^2 - 5y^2 - 2xy + 6$$

$$7x^2 + 5y^2 - 17xy + 3$$

Q9

Answer:

On arranging the terms of the given expressions in the descending powers of $m{x}$ and subtracting:

$$\begin{array}{r}
 -5a^2b \\
 3a^2b \\
 \hline
 -8a^2b
 \end{array}$$

Q10

Answer:

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and subtracting column-wise:

$$\begin{array}{r}
6pq \\
-8pq \\
+ \\
\hline
14pq
\end{array}$$

Q11

Answer:

Writing the terms of the given expressions (in the same order) in the form of rows with like terms below each other and subtracting column-wise:

$$-8abc$$
 $-2abc$
 $+$
 $-6abc$