

MATHEMATICS

Class-7th

Chapter-12

Algebraic
expressions

Exercise-12.2

Part-3

-By:- A.K.Jha



Q.5. Sol. We must subtract $-x^2 - y^2 + 6xy + 20$
from $3x^2 - 4y^2 + 5x + 20$.

$$\begin{array}{r} \therefore \quad 3x^2 - 4y^2 + 5x + 20 \\ -x^2 - y^2 + 6xy + 20 \\ \hline 4x^2 - 3y^2 - xy. \quad \text{Ans.} \end{array}$$

Q.6. Sol. (a).

We first find the sum of $3x - y + 11$
and $-y - 11$.

$$\begin{array}{r} \therefore \quad 3x - y + 11 \\ -y - 11 \\ \hline 3x - 2y \end{array}$$

Now, we subtract $3x - y - 11$ from $3x - 2y$

$$\begin{array}{r} \therefore \quad 3x - 2y \\ 3x - y - 11 \\ \hline -y + 11. \quad \text{Ans.} \end{array}$$

(b) We first add $4 + 3x$ and $5 - 4x + 2x^2$.

$$\Rightarrow \begin{array}{r} 4 + 3x \\ 5 - 4x + 2x^2 \\ \hline 9 - x + 2x^2 \end{array} \quad \text{--- (i)}$$

We then add $3x^2 - 5x$ and $-x^2 + 2x + 5$.

