

10.  $8 - x - 4x$

$= 8 - 5x$  (ans)

(ii)  $4p + p^2$  from  $3p^2 - 8p$

$= (3p^2 - 8p) - (4p + p^2)$

$= 3p^2 - 8p - 4p - p^2$

$= 2p^2 - 12p$  (ans)

Q

$$8. \quad 6a + 9b + 8a - 4b$$

= Perimeter of rectangle is  $2 \times$  length breadth

$$= 2 \times (6a + 9b + 8a - 4b)$$

$$= 2 \times (6a + 8a + 9b - 4b)$$

$$= 2 \times (14a + 5b)$$

$$= 28a + 10b \text{ (Ans)}$$

$$9. \quad (2a + b) - (a + b)$$

$$= 2a + b - a - b$$

$$= 2a + a + b - b$$

$$= 3a \text{ (Ans)}$$

$$(ii) \quad -2b + 2c + b + 3c$$

$$= (-2b + 2c) - (b + 3c)$$

$$= -2b + 2c - b - 3c$$

$$= -2b - b + 2c - b - 3c$$

$$= -3b - 1c \text{ (Ans)}$$

$$10. \quad 10a$$

$$(ii)$$

$$= \{4x^2 + x^2 - 2\} + \{2y^2 - 5y^2 - 2\} + \{8xy + 2\} + \{8xy\}$$

$$= 5x^2 + 3y^2 + 16xy \text{ (ans)}$$

$$x + 3y$$

$$x + 3y \text{ (ans)}$$

$$\text{Q11) } 11 + (-10y)$$

$$11 - 10y \text{ (ans)}$$

The sides of a triangle are

$$2x + 3y + x + 5y + 7x - 2y$$

$$2x + 7x + x + 3y + 5y - 2y$$

$$10x + 6y \text{ (ans)}$$

$$30 \quad 3m + 12m - 5m$$

$$= 12 + 3m$$

$$= 15m - 5m$$

$$= 10m \text{ (ANS)}$$

$$(ii) \quad 16am + 4mx + 4am - 15m \times + 5am$$

$$\rightarrow 16am + 4am + 5am + 4mx - 15m \times$$

$$= 25am - 11m \times \text{ (ANS)}$$

~~25am~~

$$40 \quad a + 2a + b + 3b$$

$$= 3a + 4b \text{ (ANS)}$$

$$(iv) \quad 4 + 5 + x + 6x - 2x$$

$$= 9 + 7x - 2x$$

$$= 9 + 5x \text{ (ANS)}$$

$$50 \quad 3x - 2x - 4x + 8y + 6y + 3y + 7z + 4x + 6z$$

$$= -3x + 17y + 17z \text{ (ANS)}$$

$$(ii) \quad 4x^2 + 8xy - 2y^2 \quad \text{and} \quad 8xy - 5y^2 + x^2$$

# Ex - 11 (B)

10 Fill in the blanks

(i)  $8x + 5x$

(viii)  $-15x + 13x + 8$

=  $13x$  (Ans)

=  $2x + 8$  (Ans)

(ii)  $8x - 5x$

(ix)  $6x^2y + 13xy^2 - 4x^2y + 2xy^2$

=  $3x$  (Ans)

(i)  $6xy^2 + 9xy^2$

=  $6x^2y - 4x^2y + 13xy^2 + 2xy^2$

=  $15xy^2$  (Ans)

=  $2x^2y + 15xy^2$  (Ans)

(ii)  $6xy^2 - 9xy^2$

(x)  $16x^2 - 9x^2$

=  $-3xy^2$  (Ans)

=  $7x^2$  (Ans)

(iii)  $8a + 6a + 5b$

(ii)  $-9x + 3x + 4x$

=  $14a + 5b$  (Ans)

=  $-9x + 7x$

=  $-2x$  (Ans)

(iv)  $5 + 7xy + 6 + 3xy$

(ii)  $18pq - 15pq + 3pq$

=  $7xy + 3xy + 5 + 6$

=  $18pq + 3pq$

=  $10xy + 11$  (Ans)

=  $21pq - 15pq$

$4a + 3b - 7a + 4b$

=  $6pq$  (Ans)

$4a - 7a + 3b + 4b$

=  $-3a + 7b$  (Ans)