

**General instructions for Students: Whatever be the notes provided, everything must be copied in the Mathematics copy and then do the HOMEWORK in the same copy.**

**CLASS – VIII**

**11. Factotazation**

**MATHS**

**Factorising by grouping of terms**

**Exercise – 11.2**

**1(i)  $x^2 + xy - x - y$**

**Solution :**  $x^2 + xy - x - y = (x^2 + xy) - (x + y)$   
 $= x(x + y) - 1(x + y)$   
 $= (x + y)(x - 1)$  **Ans.**

**4(ii)  $3ax - 6ay - 8by + 4bx$**

**Solution :**  $3ax - 6ay - 8by + 4bx = (3ax - 6ay) + (4bx - 8by)$   
 $= 3a(x - 2y) + 4b(x - 2y)$   
 $= (x - 2y)(3a + 4b)$  **Ans.**

**7(ii)  $x^2 - x(a + 2b) + 2ab$**

**Solution :**  $x^2 - x(a + 2b) + 2ab = x^2 - ax - 2bx + 2ab$   
 $= x(x - a) - 2b(x - a)$   
 $= (x - a)(x - 2b)$  **Ans.**

**10(i)  $a^2b + ab^2 - abc - b^2c + axy + bxy$**

**Solution :**  $a^2b + ab^2 - abc - b^2c + axy + bxy = (a^2b + ab^2) - (abc + b^2c) + (axy + bxy)$   
 $= ab(a + b) - bc(a + b) + xy(a + b)$   
 $= (a + b)(ab - bc + xy)$  **Ans.**

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**HOMEWORK**

**EXERCISE – 11.2**

**QUESTION NUMBERS : 2(ii), 3(ii), 5(ii), 8(i) and 11(i)**

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