

## Factorisation Worksheet – 2

Factorise the following Polynomials

1.  $5x(a + 3b) - 3y(a + 3b)$

2.  $34a^3b - 64a^2bc$

3.  $8xy^2 + 10x^2y - 22xy$

4.  $(2x + 3y)^2 - 5x(2x + 3y) + 4y(2x + 3y)$

5.  $15a(3p + q)^3 - 35b(3p + q)^2 + 15(3p + q)$

6.  $5a(m^2 + n^2) + 15b(m^2 + n^2)$

7.  $18x^3y^3 - 75x^2y^3 + 27x^3y^2$

8.  $10mn + 22m - 32p$

9.  $l^3 - 4l^2 + 2l - 8 - lm + 4m$

10.  $p^2 - q + pq - p$

11.  $m^3 - m^2 - mn + m + n - 1$

12.  $r^2 + ap - ar - rp$

13.  $mn - ma - an + a^2 + bn - ba$

14.  $1 + p + pq + p^2q$

15.  $4a + 4b - 5cx - 5bx + 4c - 5ax$

16.  $4x^5 - 8x^4 - 5x^3 + 10x^2 + x - 2$

17.  $y - 1 - (y - 1)^2 + 4 - 4y$

18.  $36x^2 - 16y^2$

19.  $64 - 32x + 4x^2$

20.  $a^2 + 10a + 25$