

DAV MODEL SCHOOL, PJHEP, TS-GENCO COLONY
 SUBJECT: MATHEMATICS TOPIC: FACTORIZATION

NAME OF THE STUDENT: CLASS: DATE:

Factorize the following using identities wherever necessary.

(i) $x^2 + xy + 9x + 9y$ =

(a - 1) (5b + 3)

(ii) $6xy - 4y + 6 - 9x$ =

(3x - 2) (x + 9)

(iii) $10ab + 6a + 5b + 3$ =

(a+y) (x + 1)

(iv) $x^3 + x^2 + x + 1$ =

(2y - 3) (2a + 1)

(v) $a^2 - y + ay - a$ =

(x + y) (x² + 1)

(vi) $x^3 - x^2y + 5x - 5y$ =

(a - 1) (x - 1)

(vii) $a(a + 3) - a - 3$ =

(p - r) (x + y)

(viii) $3ax + 3ay - 2bx - 2by$ =

(x-y) (x) (a + 3)

(ix) $p^2 + pq - pr - qr$ =

(3a - 2b) (x - y²)

(x) $x^3 - x^2 + xy^2 - x^2y^2$ =

(p + q) (x² + 5)