ST. THOMAS SCHOOL, LONI

ALGEBRAIC EXPRESSIONS

WORKSHEET(NOVEMBER)

CLASS –VII -___

SUBJECT-MATHEMATICS

Name: _____ Roll no:_____ Date:_____

NOTE:

- ✓ **Date of submission is 01-11-19**
- ✓ **Solve on A4 size sheet and attach the worksheet in Portfolio.**

1. Simplify combining like terms:
   - (i) $21b - 32 + 7b - 20b$
   - (ii) $-z^2 + 13z^2 - 5x + 7z^3 - 15z$
   - (iii) $p - (p - q) - q - (q - p)$
   - (iv) $3a - 2b - ab - (a - b + ab) + 3ab + b - a$
   - (v) $5x^2y - 5x^2 + 3yx^2 - 3y^2 + x^2 - y^2 + 8xy^2 - 3y^2$
   - (vi) $(3y^2 + 5y - 4) - (8y - y^2 - 4)$

2. Add:
   - (i) $3mn, -5mn, 8mn - 4mn$
   - (ii) $t - 8tz, 3tz - z, z - t$
   - (iii) $-7mn + 5, 12mn + 2, 9mn - 8, -2mn - 3$
   - (iv) $a + b - 3, b - a + 3, a - b + 3$
   - (v) $14x + 10y - 12xy - 13, 18 - 7x - 10y + 8xy, 4xy$
   - (vi) $5m - 7n, 3n - 4m + 2, 2m - 3mn - 5$
   - (vii) $4x^2y, -3xy^2, -5xy^2, 5x^2y$
   - (viii) $3p^2q^2 - 4pq + 5, -10p^2q^2, 15 + 9pq + 7p^2q^2$
   - (ix) $ab - 4a, 4b - ab, 4a - 4b$
   - (x) $x^2 - y^2 - 1, y^2 - 1 - x^2, 1 - x^2 - y^2$

3. Subtract:
   (i) $-5y^2$ from y^2
   (ii) $6xy$ from $-12xy$
   (iii) $(a-b)$ from $(a+b)$
   (iv) $a(b-5)$ from $b(5-a)$
   (v) $-m^2+5mn$ from $4m^2-3mn+8$
   (vi) $-x^2+10x-5$ from $5x-10$
   (vii) $5a^2-7ab+5b^2$ from $3ab-2a^2-2b^2$
   (viii) $4pq-5q^2-3p^2$ from $5p^2+3q^2-pq$