19(A)

(i) $5+4=9$ and $5x+4x=9x$

(ii) $12+18=30$ and $12x^2y+18x^2y=30x^2y$

(iii) $7+16=23$ and $7a+16b=7a+16b$

(iv) $1+3=4$ and $x^2y+3xy^2=x^2y+3xy^2$

(v) $7-4=3$ and $7ab-4ab=3ab$

(vi) $12-5=7$ and $12x-5y=12x-5y$

(vii) $35-16=19$ and $35ab-16ba=35ab-16ba$

(viii) $28-13=15$ and $28ax^2-13a^2x=28ax^2-13a^2x$

(2)(i) The sum of -2 and $-5=-7$ and the sum of $-2x$ and $-5x=-7x$

(ii) The sum of 8 and $-3=5$ and the sum of $8ab$ t $-3ab=5ab$

(iv) $15+8+3=26$ $15x+8y+3x=18x\,8y$

(v) $12-9+15 = 18$ and $12ab - 9ab + 15ba = 18ab$

(vi) $25-7-9 = 9$ and $25xy - 7xy - 9yx = 9xy$

(vii) $-4-6-5 = -15$ and $-4ax - 6ax - 5ay = -15ax$

(3xi) $8xy$ and $3xy$

$= 8xy + 3xy = 11xy$

(ii) $2xyz + xyz + 6xyz = (2+1+6)xyz = 9xyz$

(iii) $2a + 3a + 43 = 5a + 4b$

(iv) $3x + 2y = 3x + 2y$

(v) $5m + 3n + 4p = 5m + 3n + 4p$

(vi) $6a + 3a + 9ab = 9a + 9ab$

(vii) $3p + 4q + 9q = 3p + 13q$

(viii) $5ab + 4ba + 6b = 9ab + 6b$

(ix) $80pq + 30pq + 10pr = 80pq + 10pr$

(x) $(-2y) - (-y) + (-3y)$

$= -6y$

(xi) $(-3b) + (-b)$

$= -4b$

(xii) $5b + (-4b) + (-10b)$

$= 9b$

(xiii) $(-2c) + (-c) + (-5c)$

$= -8c$

(4)(i) $6a - a - 5a + -2a$

$= 6a - 8a = -2a$

(ii) $2b - 3b - b + 4b$

$= 6b - 4b = 2b$

(iii) $3x - 2x - 4x + 7x$

$= 10x - 6x = 4x$

(iv) $5ab + 2ab + -6ab + ab$

$= 8ab - 6ab = 2ab$

(v) $8x - 5y - 3x + 10y$

$= 5x + 5y$

(Bxi) $7x + 9x + 2x - 2x$

$= 11x - 9x = 2x$

(ii) $5ab - 2ab - 8ab + 6ab$

$= 11ab - 10ab = ab$

(iii) $-8a - 3a + 12a + 13a - 6a$

$= 25a + 17a = 8a$

(iv) $19abc - 11abc - 12abc + 14abc$

$= abc(33 - 23) = 10abc$

(6) (i) $6ba - 4ab = 2ab$

(ii) $6 \cdot 8b \div 4 \cdot 8b = 2b$

(iii) $10.5abc - 3.5abc = 7abc$

(iv) $3\frac{1}{2}mn, 8\frac{1}{2}nm = 5mn$

(7) (i) $9a^2b^2 + 5ab^2 + 8a^2b^2 - 3ab^2$
$= 10a^2b^2 + 2ab^2$

(ii) $4a + 3b - 2a - b$
$= 2a + 2b$

(iii) $2xy + 4yz + 5xy + 3yz - 6xy$
$= x + 7yz$

(iv) $ab + 15ab - 11ab - 2ab$
$= 3ab$

(v) $6a^2 - 3b^2 + 2a^2 + 5b^2 - 4a^2$
$= 4a^2 + 2b^2$

(vi) $8abc + 2ab - 4abc + ab$
$= 4abc + 3ab$

(vii) $9xyz + 15yxz - 10zyz - 2zxy$

$= 24xyz - 12xyz = 12xyz$

(viii) $13pqr + 2p + 4q - 6pqr + 5pqr$

$= 12pqr + 2p + 4p$ ~~$+ 2ab$~~

(ix) $4ab + 0 - 2ba$

$= 2ab$

(x) $6x^2y - 2xy^2 + 5x^2y - xy^2$

$= 11x^2y - 3xy^2$