19(B)

1(i) $3a + 4b + 7c$

$-5a + 3b - 6c$

$4a - 2b - 4c$

$2a + 5b - 3c$

(ii) $2x^2 + xy - y^2$

$-x^2 + 2xy + 3y^2$

$3x^2 - 10xy + 4y^2$

$4x^2 + 7xy + 6y^2$

(iii) $x^2 - x + 1$

$-5x^2 + 2x - 2$

$3x^2 - 3x + 1$

$-1x^2 - 2x + 0$

(iv) $a^2 - ab + bc$

$-2a^2 + 2ab + bc$

$3a^2 + ab - 3bc$

$2a^2 + 2ab - bc$

(v) $4x^2 + 7 - 3x$
$-1x^2 + 8 + 4x$
$-2x^2 - 10 + 9x$
$9x^2 + 5 + 6x$

(vi) $3x + 4xy - y^2$
$-4x + xy + 2y^2$
$6x - xy + 3y^2$
$5x + 4xy + 4y^2$

2(i) $-17x^2 - 2xy + 23y^2$
$+15x^2 + 7xy - 9y^2$
$13x^2 - 4xy + 3y^2$
$11x^2 + xy + 17y^2$

(ii) $-x^2 - 3xy + 3y^2 + 8$
$-9y^2$
$-9y^2$

(ii) $-x^2 - 3xy + 3y^2 + 8$

$3x^2 + 4xy - 5y^2 - 3$

$2x^2 - 6xy + y^2 - 2$

$4x^2 - 5xy - y^2 + 3$

(iii) $a^3 - 2b^3 + a$

$-2a^3 + b^3 + 0 + b$

$4a^3 + 2b^3 - 5a - 2b$

$3a^3 + 1b^3 - 4a - 1b$

3(i) $3a - (a + 2b)$

$\Rightarrow 3a - a + 3a + 2b$

$= 4a + 3a + 2b$

$= 5a + 2b$

2(i) $3a - (a + 2b)$

$\Rightarrow 3a - a - 2b$

$= 2a - 2b$

(ii) $(5x-3y)-(x+y)$

$\Rightarrow (5x-3y)-x-y$

$\Rightarrow 5x-x-3y-y$

$= 4x - 4y$

(iii) $(8a+15b)-(3b-7a)$

$\Rightarrow (8a+15b)-(3b+7a)$

$= 1a - 8b$

(iv) $(8x+7y)-(4y-3x)$

$\Rightarrow (8x+7y)-4y+3x$

$\Rightarrow 8x+3x-7y-4y$

$= 11x-3y$

(v) $7-(4a-5)$

$\Rightarrow 7-4a-5$

$\Rightarrow 7-5-4a$

$= 2-4a$

(vi) $(6y-13)-(4-7y)$

$\Rightarrow (6y-13)-4-7y$

$\Rightarrow 6y-7y-13-4$

$= -y-9$

4. (i) $a-4b-2c$
$5a-3b+2c$
$-4a-1b+4c$

(ii) $12x+7y-21z$
$4x-6y+3z$
$8x+1y-18z$

4 (iii) $5a - 7b + 2c$

$-(+a \pm 4b + 4b + 5)$

$6a - 3b - 2c - 5$

(iv) $x - y - z$

$-(\pm 8x \pm 12y + 17z)$

$-7x + 11y - 18z$

(v) $2ab$
$ab - 2cd + 2ac + bd$
$-(2ab + cd \pm ac \pm 2bd)$
$-ab - cd + 3ac + 3bd$

(vi) $bc - ca + ab$
$-(-ab +$
$-(+bc$

(vii) $bc - ca + ab$
$-(\pm bc \pm ca \pm ab)$
$0 \; bc + cd + ab \; 2ab$

(viii) $3x + 5y - 4z$
$-(-5x + 6y \pm 3z)$
$-2x \; 1y - 1z$

(ix) $\frac{1}{2}p - \frac{1}{3}q - \frac{3}{2}r$
$-\left(\pm\frac{3}{2}p + q \pm r\right)$
$= \frac{4}{2}p - \frac{4}{3}q - \frac{1}{2}r$