

HW
EX-11C 1, 2

1) (i) $3x \times 5x^2y \times 2y$

$= 30x^3y^2$

(ii) $5 \times 3a \times 2ab^2$

$= 30a^2b^2$

(iii) $(5x+2y) \times 3xy$

$= 15x^2y + 6xy^2$

(iv) $6a-5b \times -2b$

$= -12ab + 10b^2$

(v) $-3m^2n + 5mn - 4mn^2 \times 6m^2n$

$= -18m^4n^2 + 30m^3n^2 - 24m^3n^3$

(vi) $9xy + 2y^2 \times 2x - 3y$

$= 18x^2y - 6y^3$

(vii) $4a+5b \times 4a-5b$

$= 16a^2 - 25b^2$

(viii) $6xy^2 - 7x^2y^2 + 10x^3 \times -3x^2y^3$

$= -18x^5y^5 + 21x^4y^5 - 30x^5y^3$

2) (i) ~~3a+5b~~ $\times -3xy$

$= -9axy + (-15bxy)$

(ii) $9x-5y \times -3xy$

$= -27x^2y + 15xy^2$

(iii) $3xy - 2x^2 - 6x \times (-5x^2y)$

$= (-15x^3y^2) + 10x^4y + 30x^3y$

(iv) $a+b \times a+b$

$= a(a+b) + b(a+b)$

$= a^2 + ab + ba + b^2$

$= a^2 + 2ab + b^2$