Practice Work at Home

1.add: $a^2 + b^2 + c^2 - 3abc$ and $a^2 - b^2 + c^2 + abc$

Solution:
$= (a^2 + b^2 + c^2 - 3abc) + (a^2 - b^2 + c^2 + abc)$
$= a^2 + b^2 + c^2 - 3abc + a^2 - b^2 + c^2 + abc$
$= a^2 \underline{+ b^2} + c^2 - 3abc + a^2 \underline{-b^2} + c^2 + abc$ [**Marking of like terms**]
$= 2a^2 + 0 + 2c^2 - 2abc$
$= 2a^2 + 2c^2 - 2abc$

1.Add: $x^2 - 5x + 6$, $x^2 + 3x - 2$. $-x^2 + x + 1$ $,-x^2 + 6x - 5$

2.Add: $3x^2 + y^2$ and $2x^2 + 3y^2$

3.Subtract $2x^2 - 5x + 4$ from $x^2 + 7x - 8$

4.Add $5xy - 3x^2 - 12y + 5x$, $xy - 3x - 12yz + 5x^3$ and $y - 6x^2 - yz + 5x^3$

5.Subtract $x^2y - 2x^2 - zy + 5$ and $-3x^2 + 3x^3$ from $y^3 + 3x^2y - 6x^2 - 6zy + 7x^3$

Note-E.X-4.3 Solve Word problem 25,27,36,39 from text book