Q4) We will start with the left side:

$$\overline{B - A}$$

Complementation $\Rightarrow U - (B - A)$

$\Rightarrow (B \vee \bar{B}) - (B - A)$

*Note $(B \vee \bar{B})$ is a equivelent to the universe as they both represent every possible value that could exsist in the universe:

Set difference $\Rightarrow (B \vee \bar{B}) \wedge (\neg (B - A))$

Set difference $\Rightarrow (B \vee \bar{B}) \wedge (\neg (B \wedge (\neg A)))$

De morgans law $\Rightarrow (B \vee \bar{B}) \wedge ((\neg B) \vee (\neg(\neg A)))$

$\Rightarrow (B \vee \bar{B}) \wedge (\bar{B} \vee A)$

Distributive law $\Rightarrow \bar{B} \vee (A \wedge B)$

$\therefore \overline{B - A} = \bar{B} \vee (A \wedge B)$