(b) Find
$$|\overrightarrow{AB}|$$
. Give your answer as a simplified surd.

(a) $\overrightarrow{AB} = \overrightarrow{OB} - \overrightarrow{OA} = (8-3); +(3-(-7));$

$$= 5; +10;$$
(2)
(2)
(2)
(2)
(2)

3. Given that the point A has position vector $3\mathbf{i} - 7\mathbf{j}$ and the point B has position vector $8\mathbf{i} + 3\mathbf{j}$.

(a) find the vector AB

(b) by Pythagoras, $|\overrightarrow{AB}| = \sqrt{5^2 + 10^2}$