Solving geometric problems

Gold

Given that:

$$A = (-3, 2, 4), \ B = (2, 3, 4), \ C = (-2, 6, 3)$$

find the area, to 2 decimal places, of the triangle ABC.

Silver

Given that:

$$A = (-3, 2, 4), \ B = (2, 3, 4), \ C = (-2, 6, 3)$$

a write down the unit vectors in the directions of $\overrightarrow{AB}$ and $\overrightarrow{AC}$. Label these **a** and **b** respectively.

b You know that the vectors **a**, **b** and **c** are the sides of a triangle. Find the vector **c**.

Bronze

Given that:

$$A = (-3, 2, 4), \ B = (2, 3, 4), \ C = (-2, 6, 3)$$

write down the vectors $\overrightarrow{AB}, \overrightarrow{BC}$ and $\overrightarrow{AC}$.