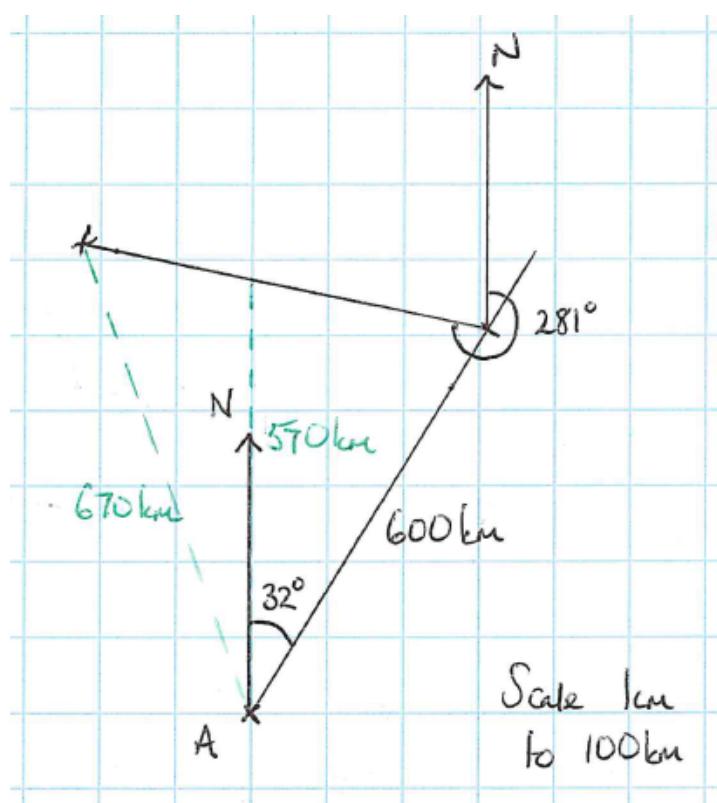1. Steve is given the following problem:

You will need to create scale diagrams in order to solve this problem. Choose a sensible scale.

An aeroplane leaves an airport and flies 600 km on a bearing of 032°. It then changes to a bearing of 281° and flies 550 km.

• At the point where the aeroplane was due North of the start, how far was it from the airport?

• What is the straight line distance between the start point and end point of the flight?

Here is Steve's solution:

Check Steve's work. What feedback would you give him?

2. Now try this problem:

An aeroplane leaves an airport and flies 500 km on a bearing of 078°. It then changes to a bearing of 245° and flies 1000 km.

• At the point where the aeroplane was due South of the start, how far was it from the airport?

• What is the straight line distance between the start point and end point of the flight?