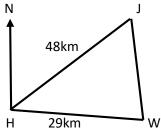
National 5 Final Exam Practice Trigonometric Skills Using Bearings with Trigonometry Average Allocation 4 Marks

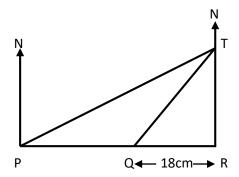
 In the diagram below, H represents a harbour for boats. J and W represent Jervis Bay and Watson Bay.
 N



From the harbour, Jervis Bay is 48km away and on a bearing of 055°. Also from the harbour, Watson Bay is 29km away and on a bearing of 093°.

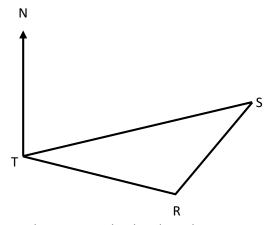
Calculate the direct distance between Jervis Bay and Watson Bay.

2. In the diagram below, T is on a bearing of 070° from P, R is due East of P and angle SQR is 61° . If QR = 18cm, calculate the length of PT.



3. The diagram shows Sarah (S) standing 350m from Tom (T) on a bearing of 085°.

Also shown is Rachael (R), standing 280m from Tom on a bearing of 115°.



- a) Calculate the distance between Rachael and Sarah.
- b) Calculate the size of angle TRS.
- c) Hence, calculate the bearing of Sarah from Rachael.