

Answer on Question #46304 – Math – Trigonometry

Point P and Q are respectively 24m north and 7m east of point R. What is the bearing of Q and P to the nearest whole degree.

52 $^{\circ}$

164 $^{\circ}$

134 $^{\circ}$

159 $^{\circ}$

Solution.

The bearing of Q from P :

$$B = 180^{\circ} - \arctan\left(\frac{RQ}{RP}\right) = 180^{\circ} - \arctan\left(\frac{7}{24}\right) \approx 180^{\circ} - 16^{\circ} = 164^{\circ}.$$