PEI HWA SECONDARY SCHOOL ELEMENTARY MATHEMATICS 2024 PROGRESSIVE MASTERY 1 SECONDARY 4N

Name:	()	Class:
Date:			

1 In the diagram below, AC = 72 m, AB = 55 m and BC = 68 m. The bearing of *B* from *A* is 230°.



Find

(a) the angle *BAC*,

(**b**) the bearing of *C* from *A*.

4 *A*, *B* and *C* are three points that lie on level ground. AB = 3.2 km, BC = 3.8 km, angle $BAC = 73^{\circ}$ and the bearing of *B* from C is 142° .





(ii) the shortest distance from *C* to *AB*.

Answer m [3]

(b) A tower is erected at *B*. The angle of depression of *C* when viewed from the top of the tower is 55° . Find the height of the tower in metres.

Answer m [2]