

(1)[5 points] Solve the triangle given the following information: $b = 10$, $c = 17$, $A = 53^\circ$.

(2)[5 points] Solve the triangle given the following information: $c = 3$, $B = 37^\circ$, $C = 32^\circ$.

(3)[5 points] Two ships leave harbour at the same time. The first sails at 25 km/h in a direction of 340° , while the second sails at 20 km/h in a direction of 49° . Note that these are compass directions measured clockwise from 0° (north). How far apart are the ships after three hours?