Bearings

CONTENTS

Worked example	Your turn
The bearing of B from A is $030°$. What is the bearing of A from B?	The bearing of B from A is $050°$. What is the bearing of A from B? $230°$

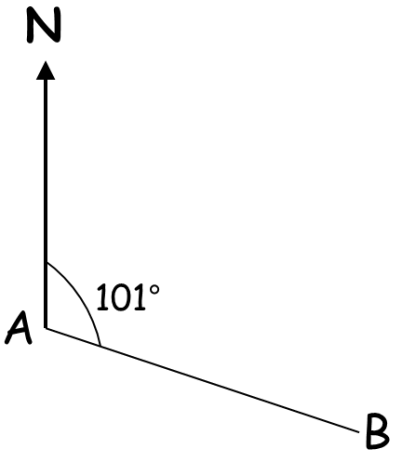
Worked example	Your turn
The bearing of B from A is $130°$. What is the bearing of A from B?	The bearing of B from A is $150°$. What is the bearing of A from B? $310°$

Worked example	Your turn
The bearing of B from A is $230°$. What is the bearing of A from B?	The bearing of B from A is $250°$. What is the bearing of A from B? $070°$

Worked example	Your turn
The bearing of B from A is $330°$. What is the bearing of A from B?	The bearing of B from A is $350°$. What is the bearing of A from B? $170°$

Worked example

Find the bearing of B from A

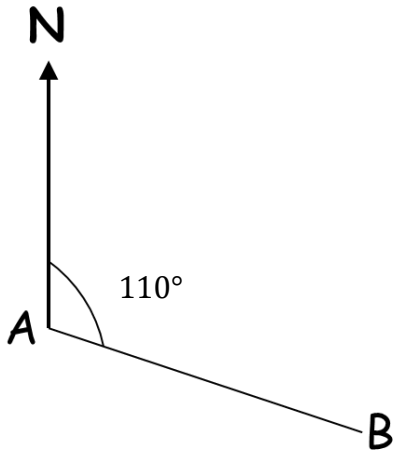


Find the bearing of A from B

Your turn

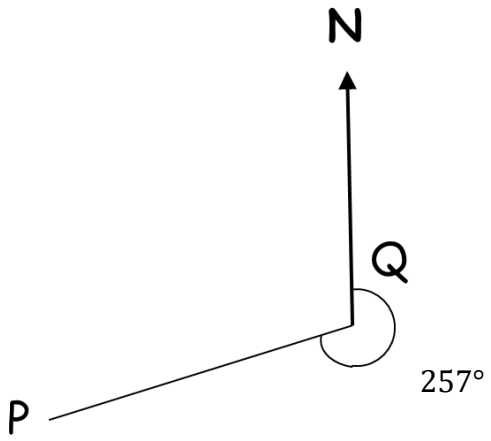
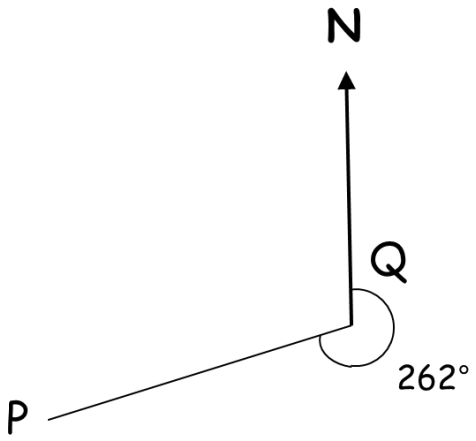
Find the bearing of B from A

110°



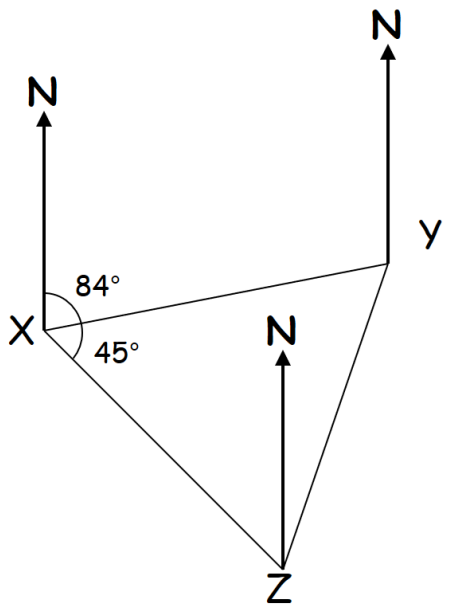
Find the bearing of A from B

290°

Worked example	Your turn
Find the bearing of P from Q	Find the bearing of P from Q
	262° 
Find the bearing of Q from P	Find the bearing of Q from P
	082°

Worked example

Find the bearing of:



Y from X

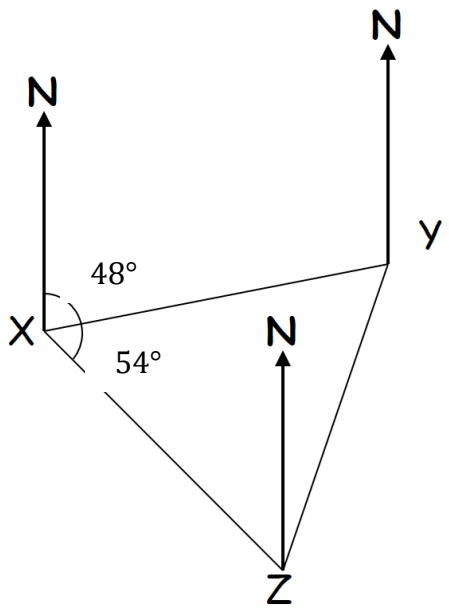
X from Y

Z From X

X from Z

Your turn

Find the bearing of:



Y from X 048°

X from Y 228°

Z From X 102°

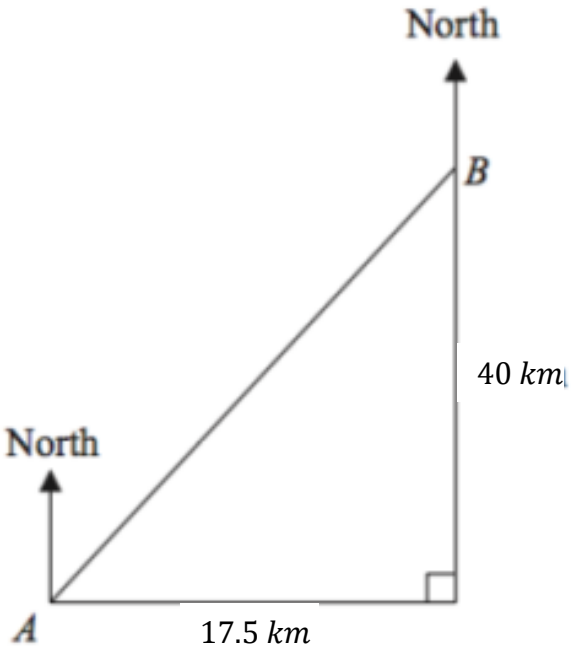
X from Z 282°

Worked example	Your turn
A ship sails on a bearing of $120°$ for $50\ km$. How far east has it travelled?	A ship sails on a bearing of $130°$ for $25\ km$. How far east has it travelled? $19.15\ km$ (2 dp)

Worked example	Your turn
A, B and C are three points. The bearing of A from B is $045º$. The bearing of C from A is $135º$. AB = $10\ km$ and AC = $6\ km$. Find the distance BC and the bearing of C from B.	A, B and C are three points. The bearing of A from B is $054º$. The bearing of C from A is $153º$. AB = $6\ km$ and AC = $10\ km$. Find the distance BC and the bearing of C from B. BC = $10.83\ km$ (2 dp) Bearing of C from B = $300°$ (nearest degree)

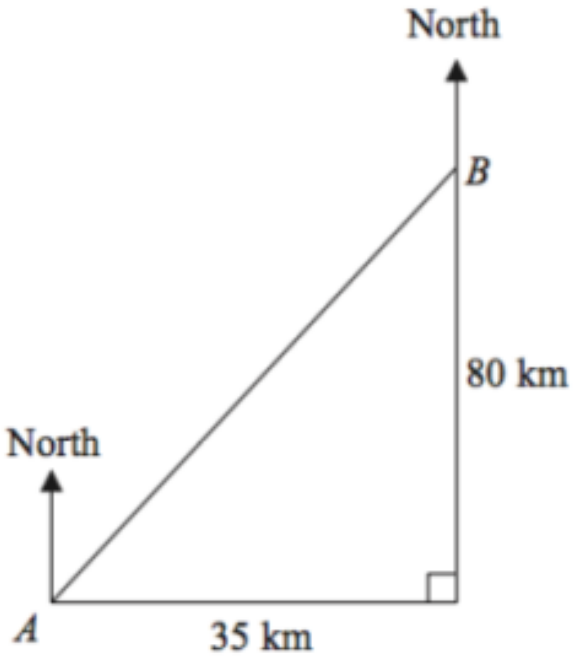
Worked example

Work out the bearing of town B from town A



Your turn

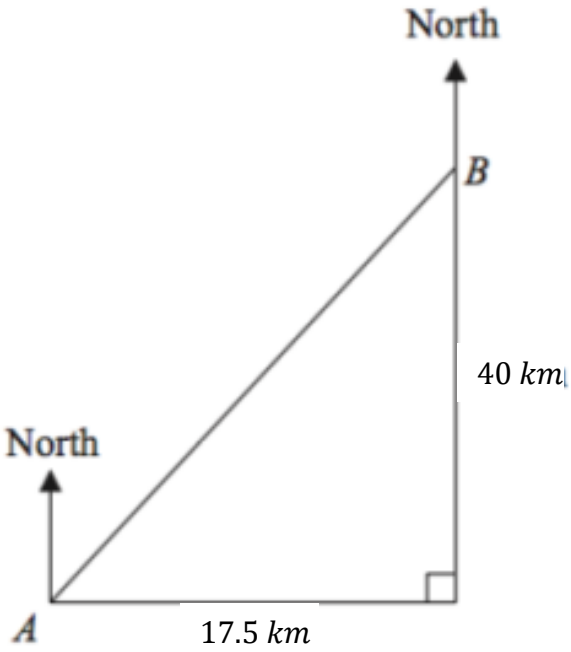
Work out the bearing of town B from town A



23.63° (2 dp)

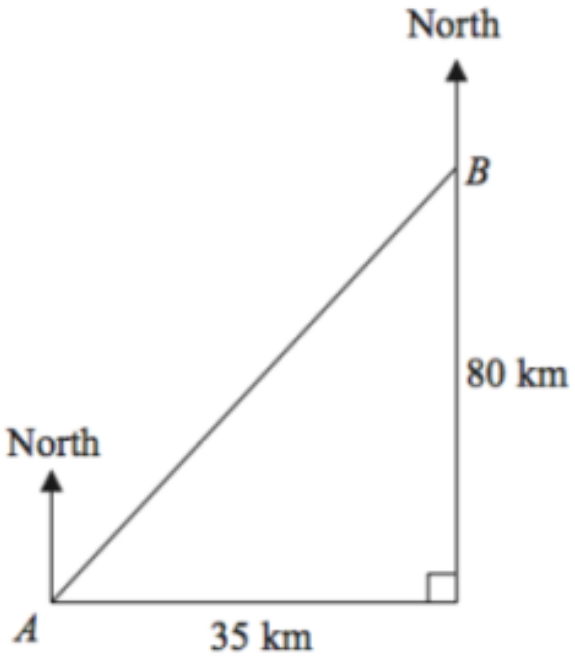
Worked example

Work out the bearing of town A from town B



Your turn

Work out the bearing of town A from town B



203.63° (2 dp)

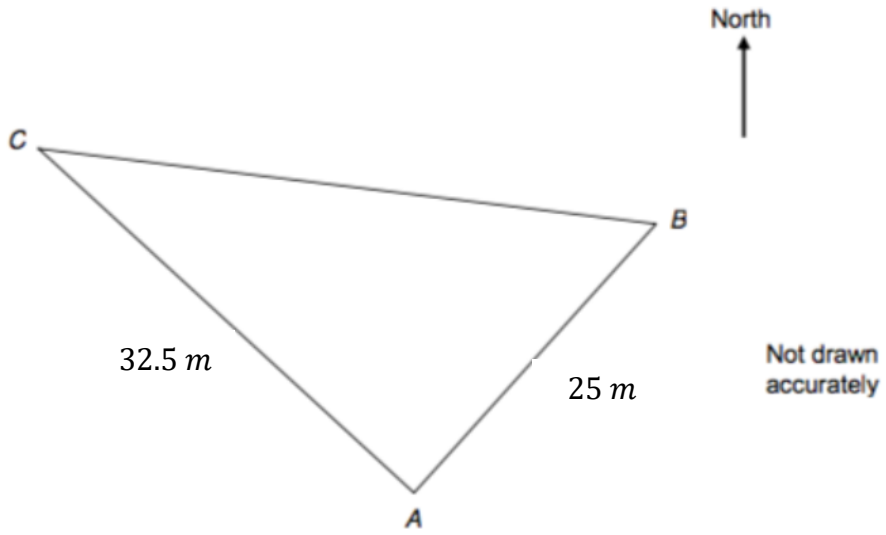
Worked example

B is 25 m from A on a bearing of $020°$

C is 32.5 m from A on a bearing of $342°$

Angle CAB is 75°

Work out distance BC



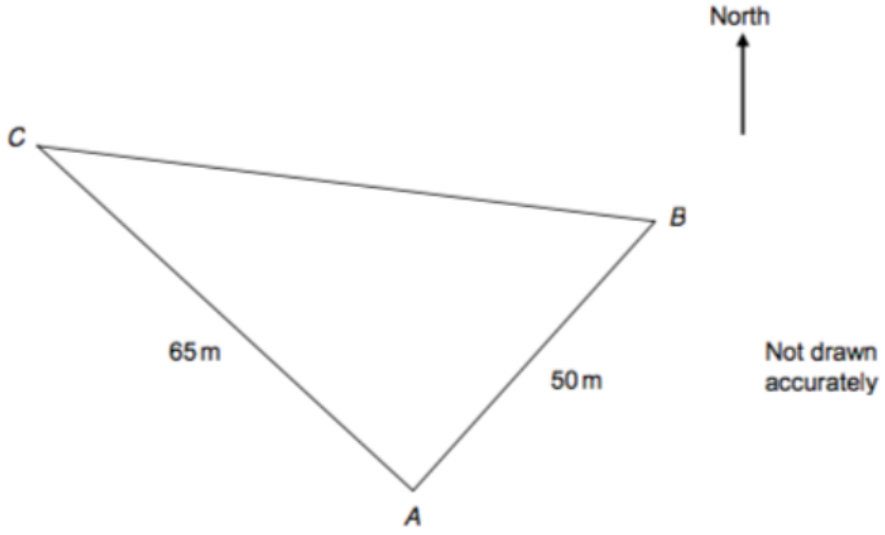
Your turn

B is 50 m from A on a bearing of $040°$

C is 65 m from A on a bearing of $325°$

Angle CAB is 75°

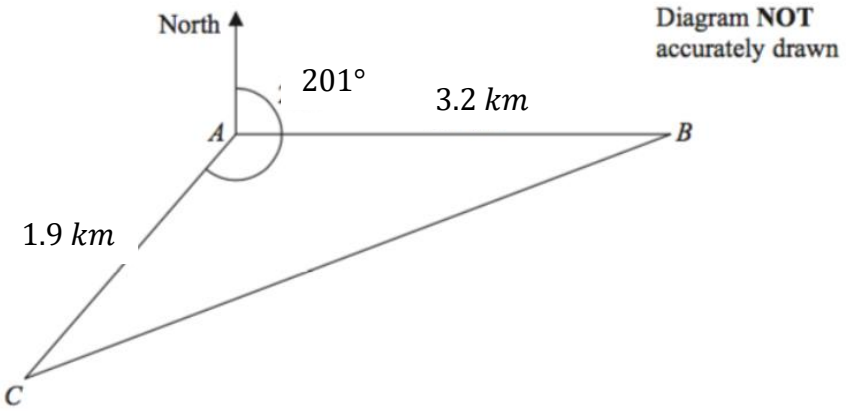
Work out distance BC



$71\ m$

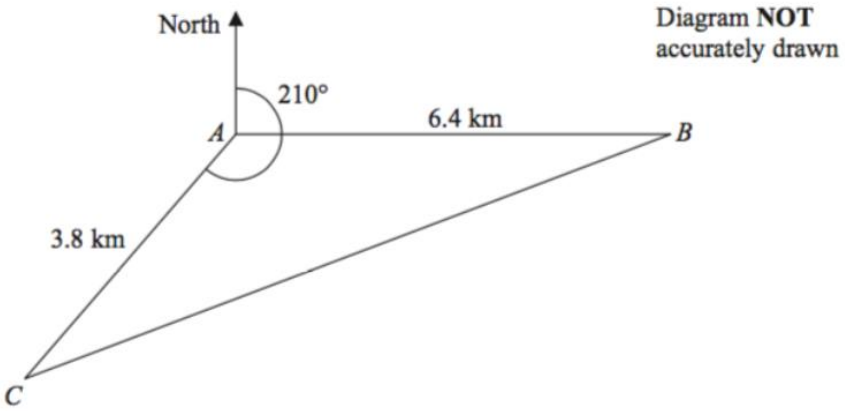
Worked example

Calculate the bearing of B from C



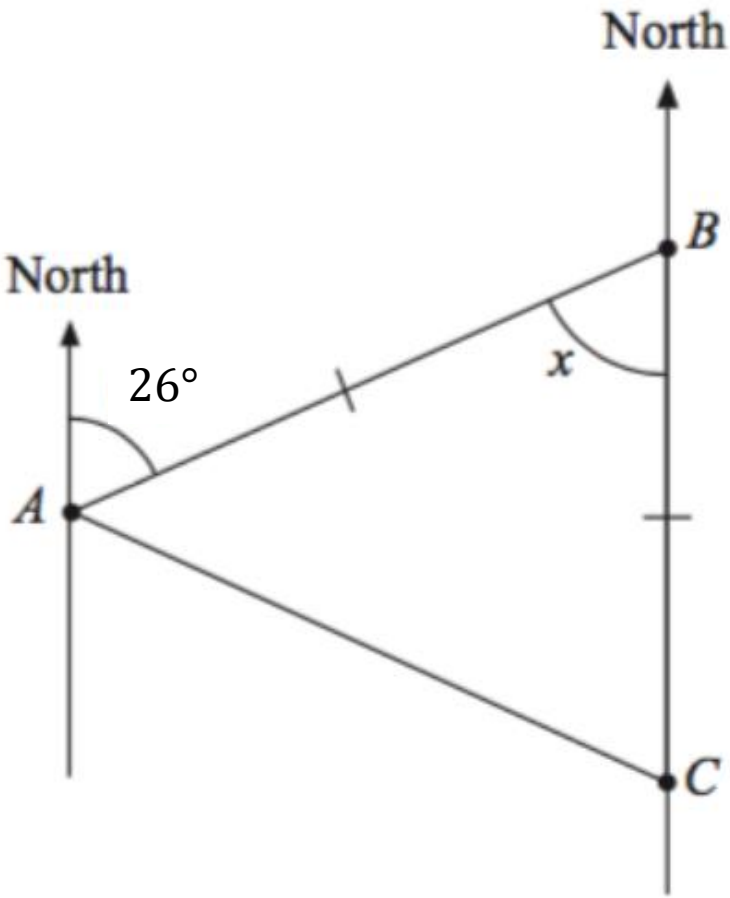
Your turn

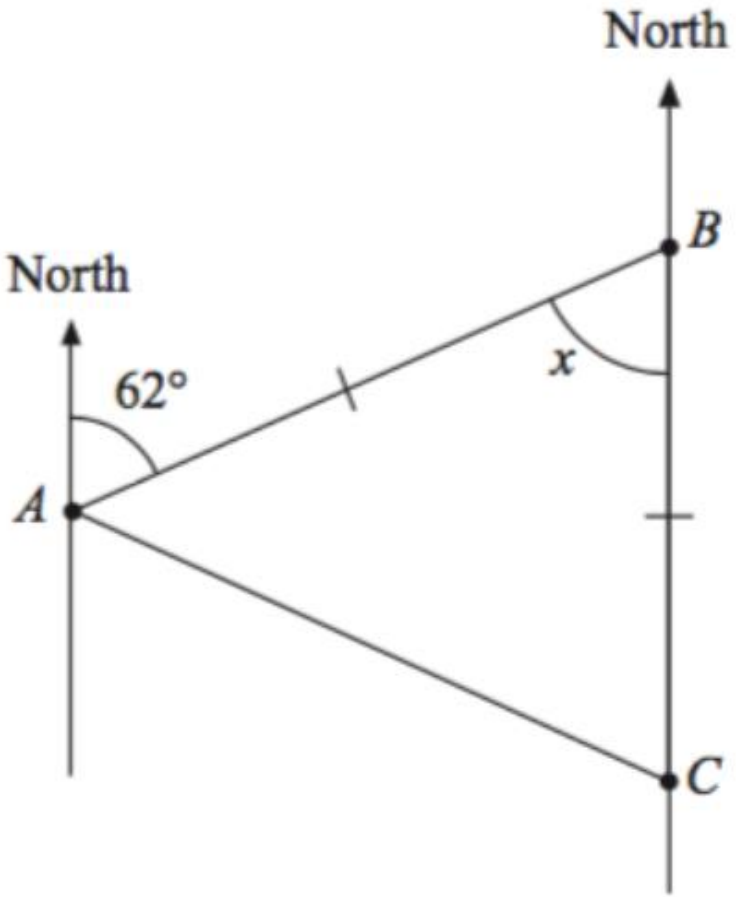
Calculate the bearing of B from C



068° (nearest degree)

Worked example	Your turn
Calculate the bearing of C from A	Calculate the bearing of C from A





121°