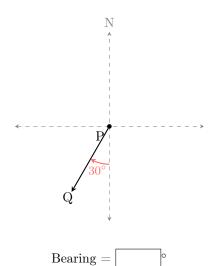
## A WHAT IS A BEARING?

## A.1 DRAWING BEARINGS

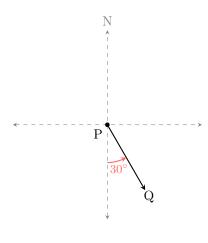
Ex 1: Draw a diagram to represent the bearing of point B from point A, if the bearing is  $110^{\circ}$ .



Ex 2: Draw a diagram to represent the bearing of point Y from

point X, if the bearing is 065°.

Ex 5: Determine the bearing of point Q from point P from the diagram below.

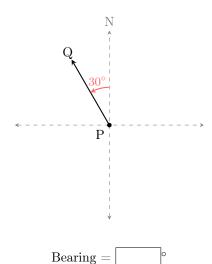


Bearing =

Ex 3: Draw a diagram to represent the bearing of point R from

point Q, if the bearing is 290°.

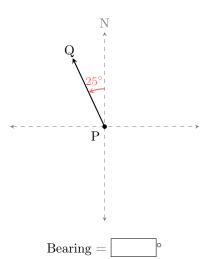
Ex 6: Determine the bearing of point Q from point P from the diagram below.



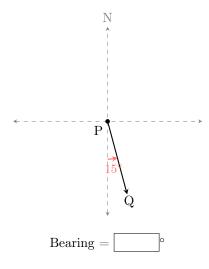
## A.2 DETERMINING BEARINGS FROM A DIAGRAM

Ex 4: Determine the bearing of point Q from point P from the diagram below.

Ex 7: Determine the bearing of point Q from point P from the diagram below.

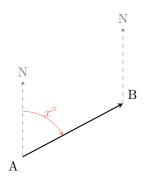


**Ex 8:** Determine the bearing of point Q from point P from the diagram below.



## A.3 FINDING BACK BEARINGS

**Ex 9:** You know the bearing of B from A is  $x^{\circ}$  with  $0^{\circ} \le x < 180^{\circ}$ .



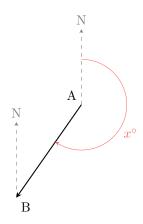
1. Using the diagram, write the bearing of A from B in terms of x.



2. If  $x^{\circ} = 072^{\circ}$ , find the bearing of A from B.



**Ex 10:** You know the bearing of B from A is  $x^{\circ}$  with  $180^{\circ} \le x < 360^{\circ}$ .



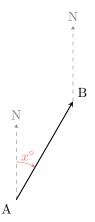
1. Using the diagram, write the bearing of A from B in terms of x.



2. If  $x^{\circ} = 215^{\circ}$ , find the bearing of A from B.



**Ex 11:** You know the bearing of B from A is  $x^{\circ}$  with  $0^{\circ} \le x < 180^{\circ}$ .



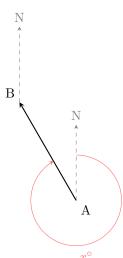
1. Using the diagram, write the bearing of A from B in terms of x.



2. If  $x^{\circ} = 030^{\circ}$ , find the bearing of A from B.



**Ex 12:** You know the bearing of B from A is  $x^{\circ}$  with  $180^{\circ} \le x < 360^{\circ}$ .



1. Using the diagram, write the bearing of A $from$ B in terms of $x$ .	
0	
2. If $x^{\circ} = 330^{\circ}$ , find the bearing of A from B.	
B PROBLEM SOLVING	
B.1 CALCULATING BEARINGS FROM COMPONENTS	
Ex 13: The point C is 2 km south and 3 km west of point A. Find the bearing from A to C.	
1. Draw a diagram to represent this situation.	Ex 15: The point C is 3 km south and 4 km west of point A. Find the bearing from A to C.
2. Find the bearing from A to C.	<ol> <li>Draw a diagram to represent this situation.</li> <li>Find the bearing from A to C.</li> </ol>
Ex 14: The point C is 3 km south and 4 km east of point	B.2 CALCULATING THE LENGTH IN A TRIANGLE FROM BEARINGS
A. Find the bearing from A to C.	Ex 16: The point B is 7 km from point A on a bearing of 105°. The digtages from B to C is 5 km and the bearing from B.
1. Draw a diagram to represent this situation.	105°. The distance from B to C is 5 km and the bearing from B to C is 230°.
2. Find the bearing from A to C.	4.75

1. Draw a diagram to represent this situation.

2. Find the angle  $\angle ABC$ .

3. Calculate the length of AC.	<ol> <li>Draw a diagram to represent this situation.</li> <li>Find the angle ∠ABC.</li> <li>Calculate the length of AC.</li> </ol>
Ex 17: The point B is 6 km from point A on a bearing of 030°. The distance from B to C is 4 km and the bearing from B to C is 160°.	
<ol> <li>Draw a diagram to represent this situation.</li> <li>Find the angle ∠ABC.</li> <li>Calculate the length of AC.</li> </ol>	

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to C is  $160^{\circ}$ .

Ex 18: The point B is 9 km from point A on a bearing of  $060^{\circ}$ . The distance from B to C is 5 km and the bearing from B