

## Bearings With Trigonometry

1. (a) The bearing of  $A$  from  $B$  is  $095^\circ$ . Find the bearing of  $B$  from  $A$ .  $275^\circ$   
(b) The bearing of  $X$  from  $Y$  is  $209^\circ$ . Find the bearing of  $Y$  from  $X$ .  $029^\circ$   
(c) The bearing of  $P$  from  $Q$  is  $176^\circ$ . Find the bearing of  $Q$  from  $P$ .  $356^\circ$   
(d) The bearing of  $A$  from  $B$  is  $324^\circ$ . Find the bearing of  $B$  from  $A$ .  $144^\circ$   
(e) The bearing of  $X$  from  $Y$  is  $109^\circ$ . Find the bearing of  $Y$  from  $X$ .  $289^\circ$   
(f) The bearing of  $P$  from  $Q$  is  $006^\circ$ . Find the bearing of  $Q$  from  $P$ .  $186^\circ$   
(g) The bearing of  $A$  from  $B$  is  $301^\circ$ . Find the bearing of  $B$  from  $A$ .  $121^\circ$   
(h) The bearing of  $X$  from  $Y$  is  $144^\circ$ . Find the bearing of  $Y$  from  $X$ .  $324^\circ$   
(i) The bearing of  $P$  from  $Q$  is  $278^\circ$ . Find the bearing of  $Q$  from  $P$ .  $098^\circ$
2. A ship sails on a bearing of  $040^\circ$  for 5 km. It then sails on a bearing of  $100^\circ$  for 8 km. How far East of its original position is the ship?  $11.1$  km
3. A ship sails on a bearing of  $320^\circ$  for 6 km. It then sails on a bearing of  $290^\circ$  for 7 km. How far North of its original position is the ship?  $6.99$  km
4. A ship sails on a bearing of  $166^\circ$  for 7 km. It then sails on a bearing of  $203^\circ$  for 10 km. How far South of its original position is the ship?  $16.0$  km
5. A ship sails on a bearing of  $083^\circ$  for 4 km. It then sails on a bearing of  $043^\circ$  for 5 km. How far North of its original position is the ship?  $4.14$  km
6. A ship sails on a bearing of  $051^\circ$  for 9 km. It then sails on a bearing of  $081^\circ$  for 8 km. Find the bearing of the ship from its original position.  $065.1^\circ$