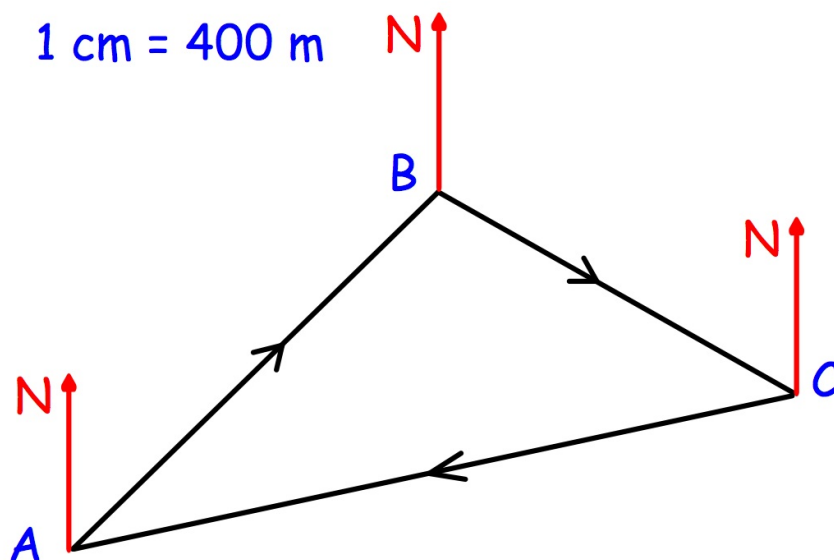


1. Calculate the 'real life' distances in metres,
 - (a) scale 1 : 200 map distance (i) 4.0 cm (ii) 12.4 cm
 - (b) scale 1 : 40 map distance (i) 6.0 cm (ii) 22.5 cm

2. Calculate the map distances in centimetres,
 - (a) scale 1 : 200 real distance (i) 24 m (ii) 5.6 m
 - (b) scale 1 : 4 000 real distance (i) 360m (ii) 60m

3. Write the scale as a representative fraction,
 - (a) map distance 4 cm real distance 20 m
 - (b) map distance 2.4 cm real distance 6 m

4.



Find the distance (km) and bearing:

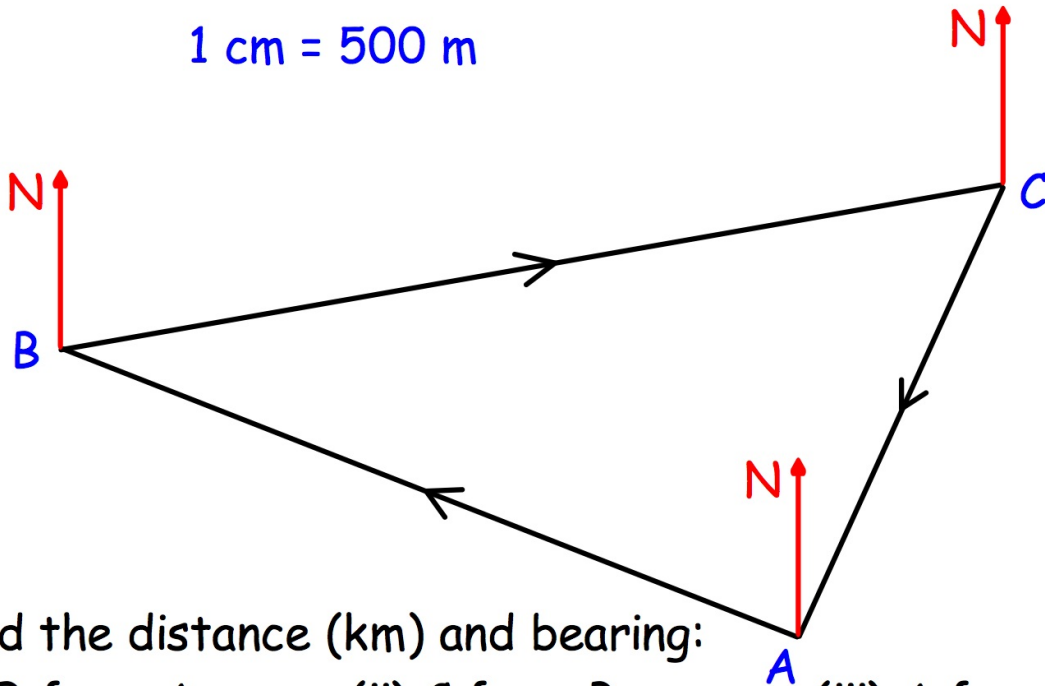
- (i) B from A (ii) C from B (iii) A from C

and hence calculate the back-bearings:

- (iv) A from B (v) B from C (vi) C from A

5.

1 cm = 500 m



Find the distance (km) and bearing:

(i) B from A

(ii) C from B

(iii) A from C

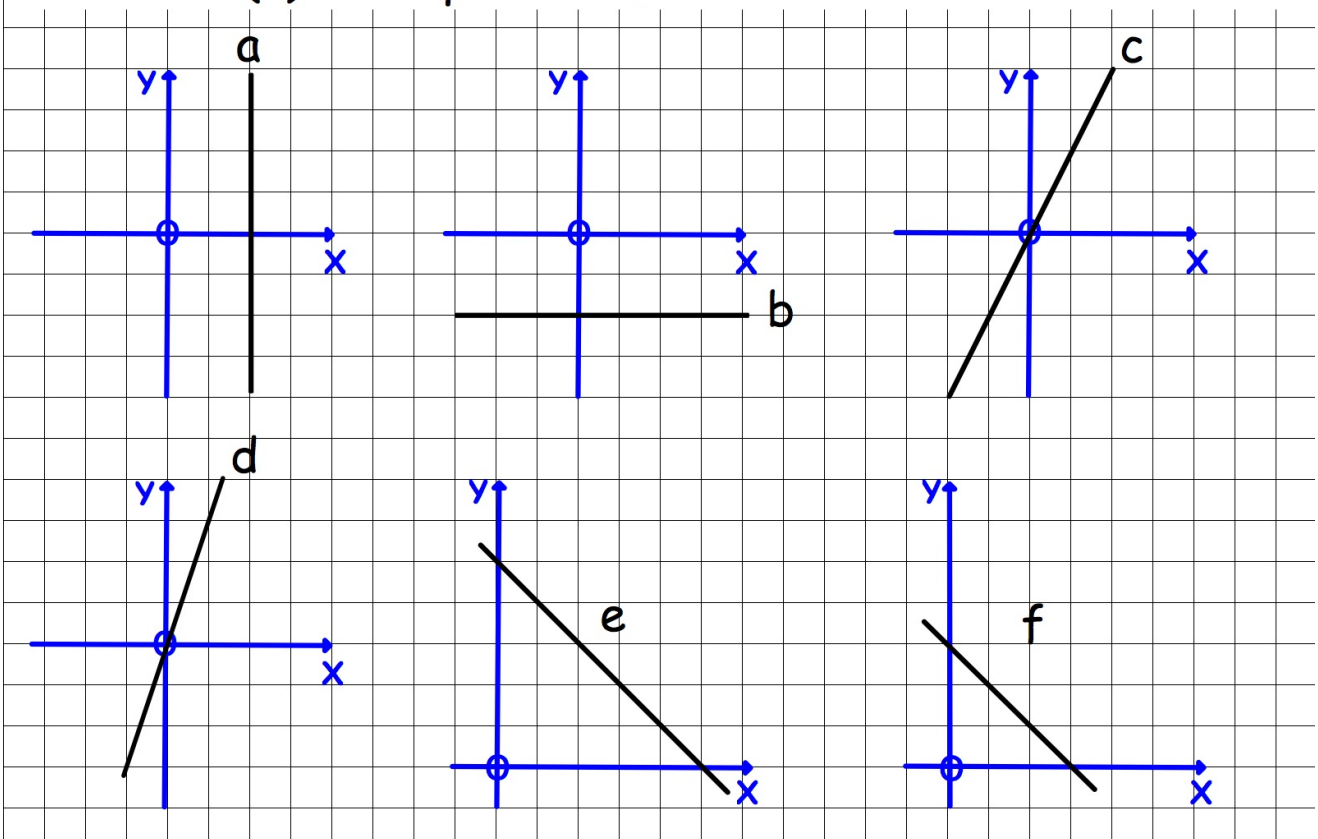
and hence calculate the back-bearings:

(iv) A from B

(v) B from C

(vi) C from A

6. Write (i) the coordinates of 3 points on the line
(ii) the equation of the line



1. (a) (i) 8m (ii) 24.8m (b) (i) 2.4m (ii) 9m
2. (a) (i) 12cm (ii) 2.8cm (b) (i) 9cm (ii) 1.5cm
3. (a) 1 : 500 (b) 1 : 250
4. (i) km , 046° (ii) km , 120° (iii) km , 257°
 (iv) 226° (v) 300° (vi) 077°
5. (i) km , 291° (ii) km , 080° (iii) km , 205°
 (iv) 111° (v) 260° (vi) 025°
6. a (i) eg. (2,-1) , (2,0) , (2,3) (ii) $x = 2$
 b (i) eg. (-1,-2) , (0,-2) , (2,-2) (ii) $y = -2$
 c (i) eg. (-1,-2) , (0,0) , (1,2) (ii) $y = 2x$
 d (i) eg. (-1,-3) , (0,0) , (1,3) (ii) $y = 3x$
 e (i) eg. (0,5) , (1,4) , (2,3) (ii) $x + y = 5$
 f (i) eg. (0,3) , (1,2) , (2,1) (ii) $x + y = 3$