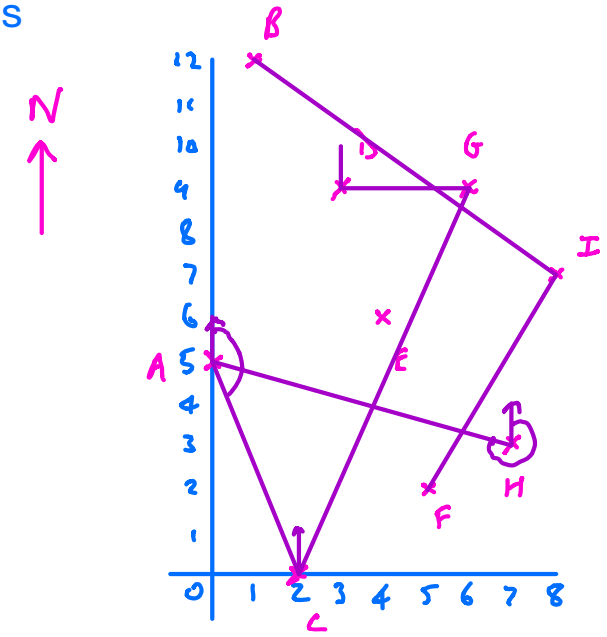
Bearings



A (0, 5)
B (1, 12)
C (2, 0)
D (3, 9)
E (4, 6)
F (5, 2)
G (6, 9)
H (7, 3)
I (8, 7)

3 figure bearings are measured clockwise from North.

The word FROM tells you where to put the protractor to measure.

1) Find bearing of C from A = 158°

2) Find bearing of A from H = 286°

3) Find bearing of G from C = 024°

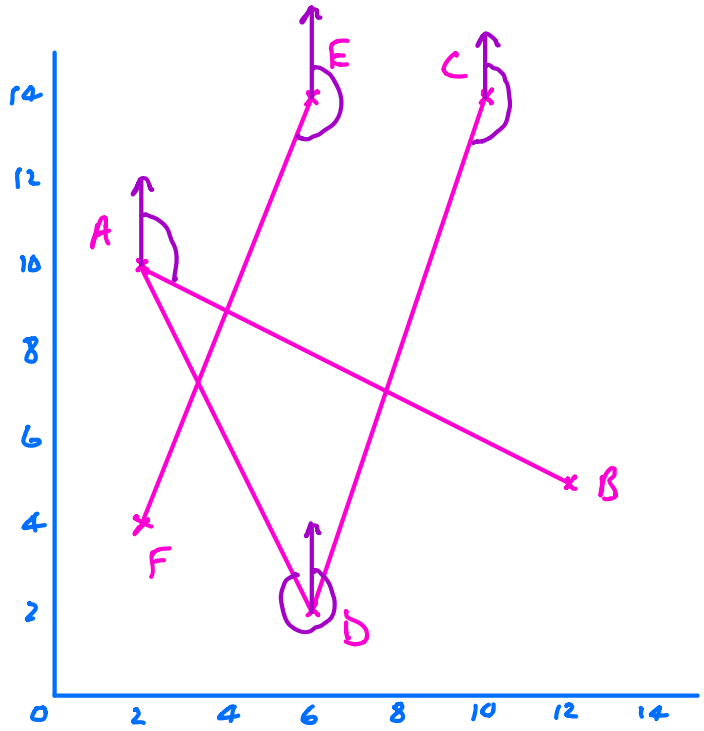
4) Find bearing of G from D = 090°

5) Find bearing of E from I = 256°

6) Find bearing of C from G = 204°

7) Find bearing of F from I = 211°

8) Find bearing of I from B = 126°



A(2, 10)
B(12, 5)
C(10, 14)
D(6, 2)
E(6, 14)
F(2, 4)

1) Find bearing of B from A $\quad 90^\circ + \tan^{-1}\left(\frac{5}{10}\right) = 117^\circ$

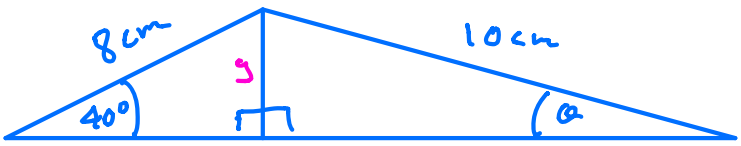
2) Find bearing of D from C $\quad 180^\circ + \tan^{-1}\left(\frac{4}{12}\right) = 198^\circ$

3) Find bearing of A from D $\quad 270^\circ + \tan^{-1}\left(\frac{8}{4}\right) = 333^\circ$

4) Find bearing of F from E $\quad 180^\circ + \tan^{-1}\left(\frac{4}{10}\right) = 202^\circ$

Tasks for students failing to complete homework

1)



Find θ

$\sin 40^\circ = \frac{y}{8}$

$8 \sin 40^\circ = y$

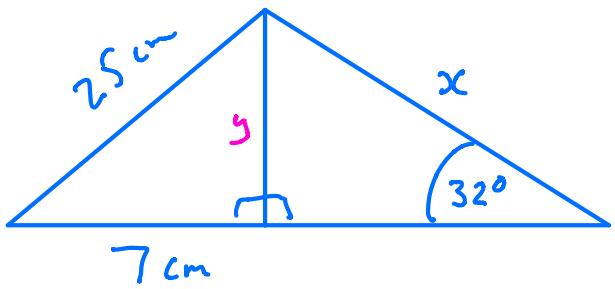
$y = 5.142$

$\sin\theta = \frac{5.142}{10}$

$\theta = \sin^{-1}\left(\frac{5.142}{10}\right)$

$\underline{\theta = 30.9^\circ}$

2)



Find x

$$y^2 + 7^2 = 25^2$$

$$y^2 = 25^2 - 7^2$$

$$y^2 = 576$$

$$y = \sqrt{576}$$

$$y = 24 \text{ cm}$$

$$\sin 32^\circ = \frac{24}{x}$$

$$x \sin 32^\circ = 24$$

$$x = \frac{24}{\sin 32^\circ}$$

$$x = 45.3 \text{ cm}$$