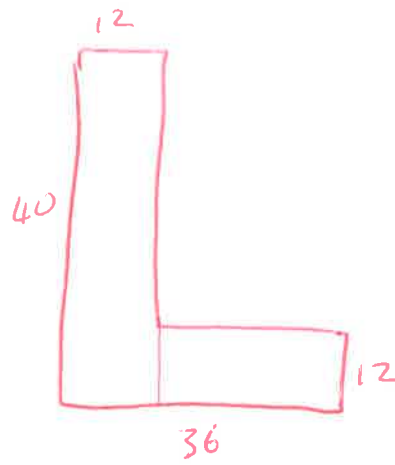


2014  
7.a.



$$12 \times 40 = 480 \text{ at } (6, 20)$$



$$24 \times 12 = 288 \text{ at } (24, 6)$$

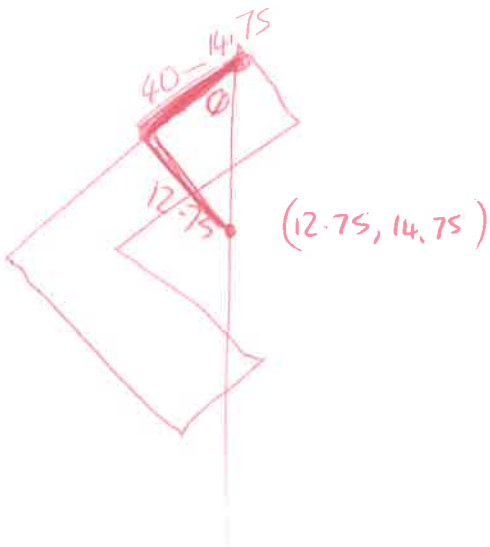
} 768 at  
(x, y)

Moments :  $768x = 480(6) + 288(24)$

$$\boxed{x = 12.75}$$

Moments :  $768y = 480(20) + 288(6)$

$$\boxed{y = 14.75}$$



$$\tan \theta = \frac{12.75}{40 - 14.75}$$

$$= 0.50495$$

$$= 0.50495$$

$$\theta = 26.79^\circ$$