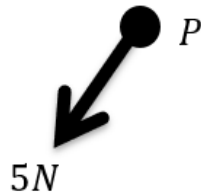
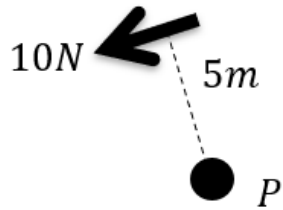


4.1) Moments

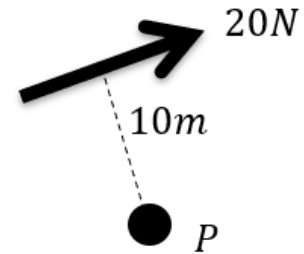
Worked example

Calculate the moment of the force about the point P



Your turn

Calculate the moment of the force about the point P



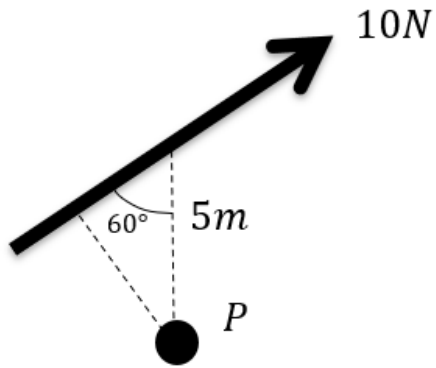
200 Nm clockwise



0 Nm

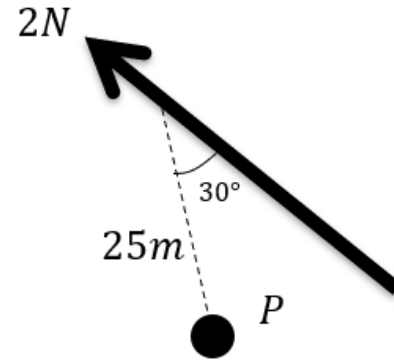
Worked example

Calculate the moment of the force about the point P



Your turn

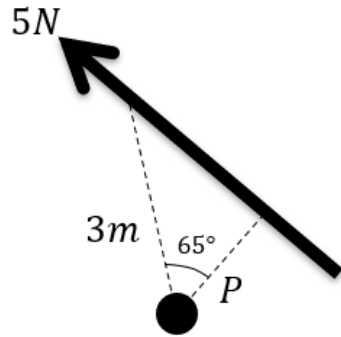
Calculate the moment of the force about the point P



$$50 \sin 30^\circ \text{ Nm} = 25 \text{ Nm}$$

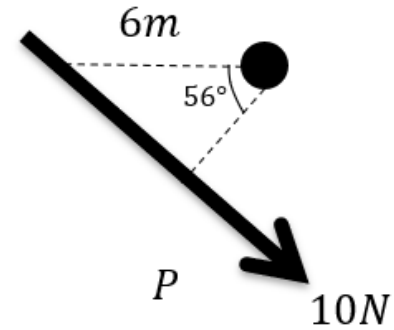
Worked example

Calculate the moment of the force about the point P



Your turn

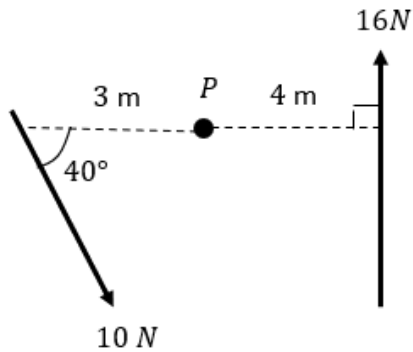
Calculate the moment of the force about the point P



33.6 Nm (3 sf) clockwise

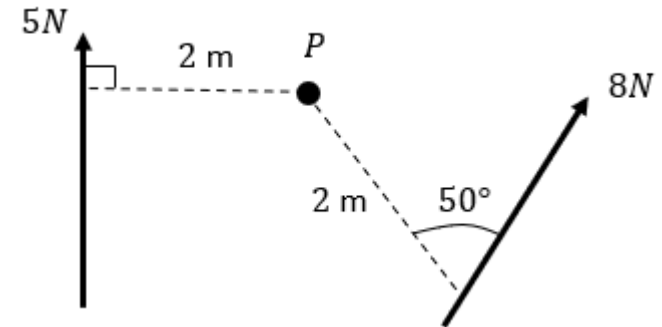
Worked example

Two forces act on a lamina. Find the moment of each of the forces about the point P .



Your turn

Two forces act on a lamina. Find the moment of each of the forces about the point P .



Moment of 5 N force = 10 Nm clockwise
Moment of 8 N force
= 12.3 Nm anticlockwise (3 sf)