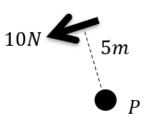
4.1) Moments

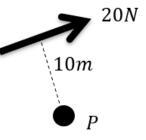


Your turn

Calculate the moment of the force about the point *P*

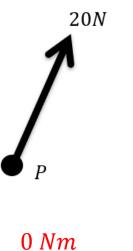
Calculate the moment of the force about the point *P*







200 Nm clockwise



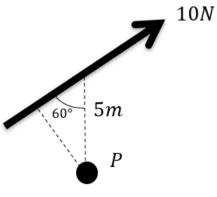
Diagrams/Graphs used with permission from prFrostMaths: https://www.drfrostmaths.com/

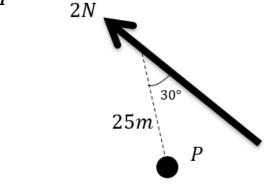
Worked example

Your turn

Calculate the moment of the force about the point P

Calculate the moment of the force about the point P 2N





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

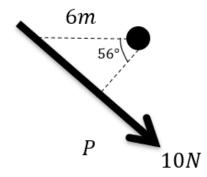
Worked example

Your turn

Calculate the moment of the force about the point P_{5N}

3m

Calculate the moment of the force about the point P



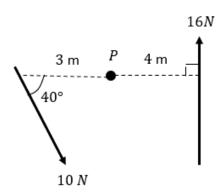
33.6 *Nm* (3 sf) clockwise

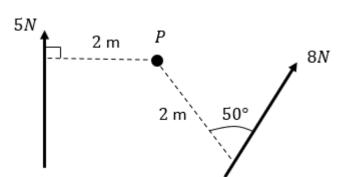
Worked example

Your turn

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

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





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