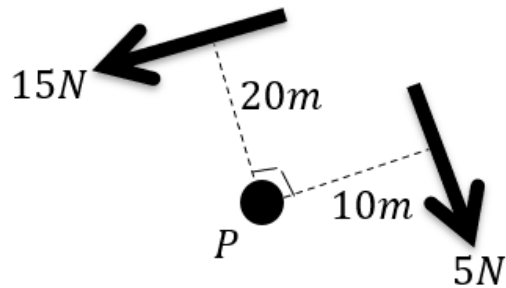


4.2) Resultant moments

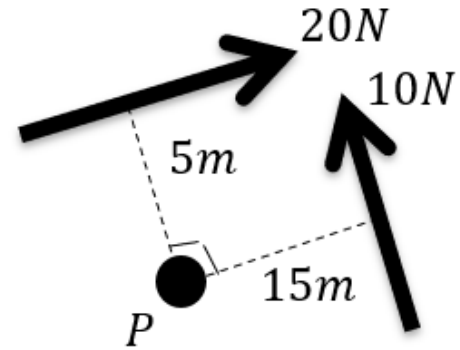
Worked example

Calculate the resultant moment acting about P



Your turn

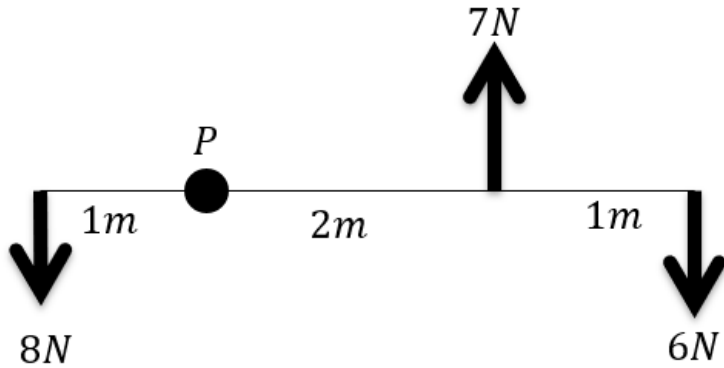
Calculate the resultant moment acting about P



50 Nm anticlockwise

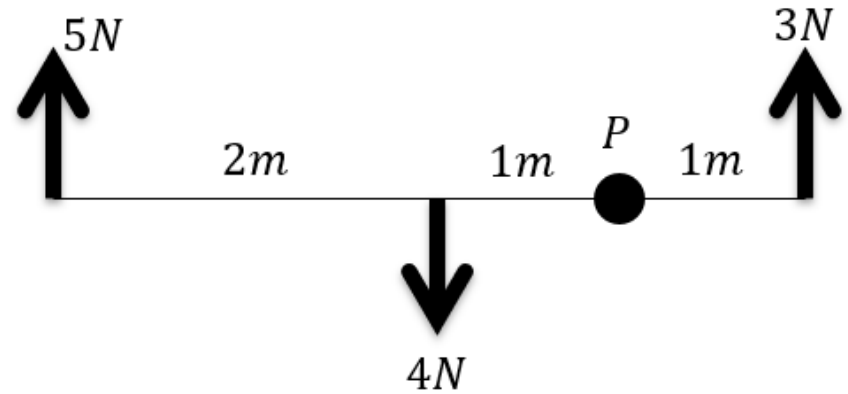
Worked example

The rod is light. Calculate the resultant moment acting about P .



Your turn

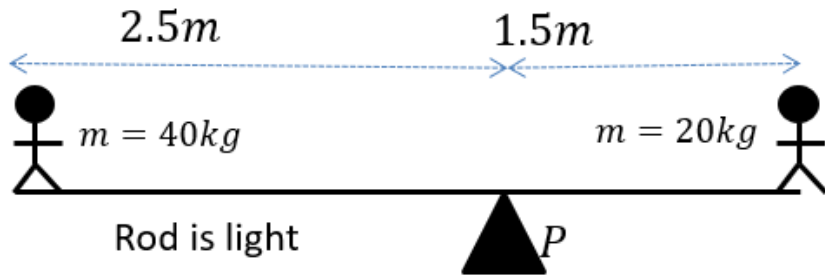
The rod is light. Calculate the resultant moment acting about P .



8 Nm clockwise

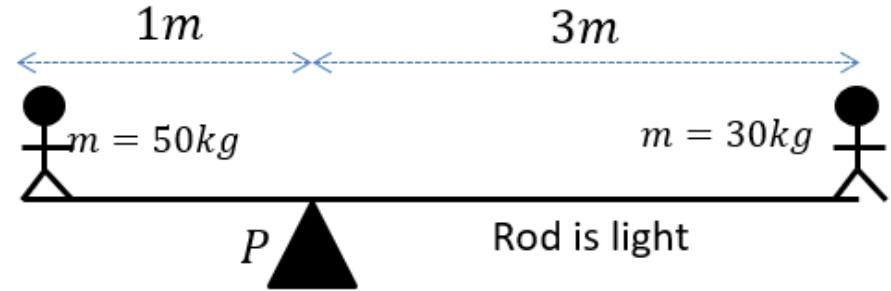
Worked example

Find the resultant moment acting about P



Your turn

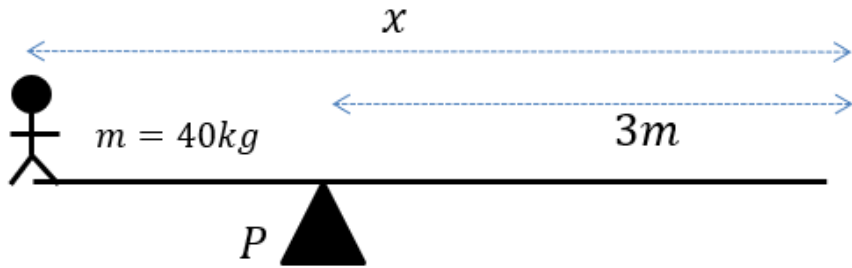
Find the resultant moment acting about P



40g Nm = 392 Nm clockwise

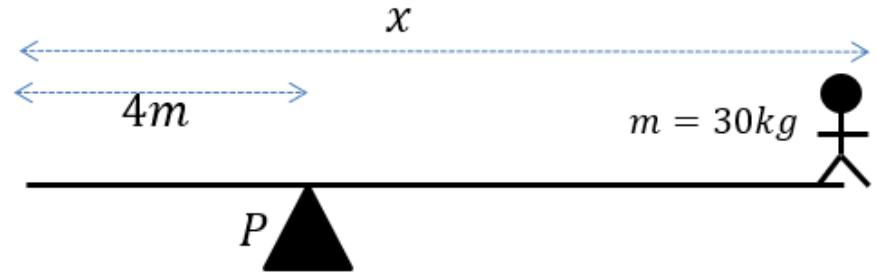
Worked example

The rod is light. Calculate the resultant moment acting about P .



Your turn

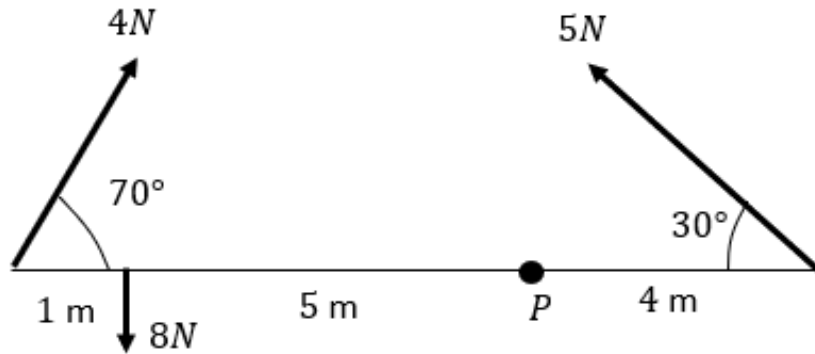
The rod is light. Calculate the resultant moment acting about P .



$$30g(x - 4) \text{ Nm clockwise}$$

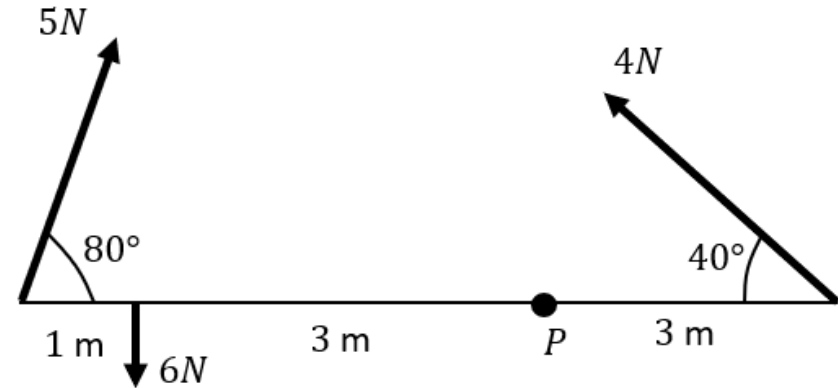
Worked example

The rod is light. Calculate the resultant moment acting about P .



Your turn

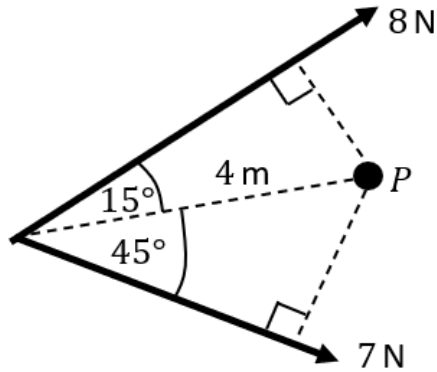
The rod is light. Calculate the resultant moment acting about P .



6.02 Nm anticlockwise (3 sf)

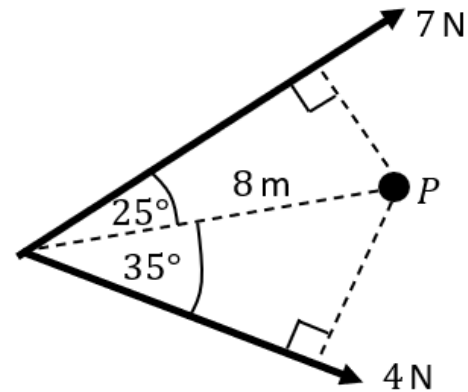
Worked example

The rod is light. Calculate the resultant moment acting about P



Your turn

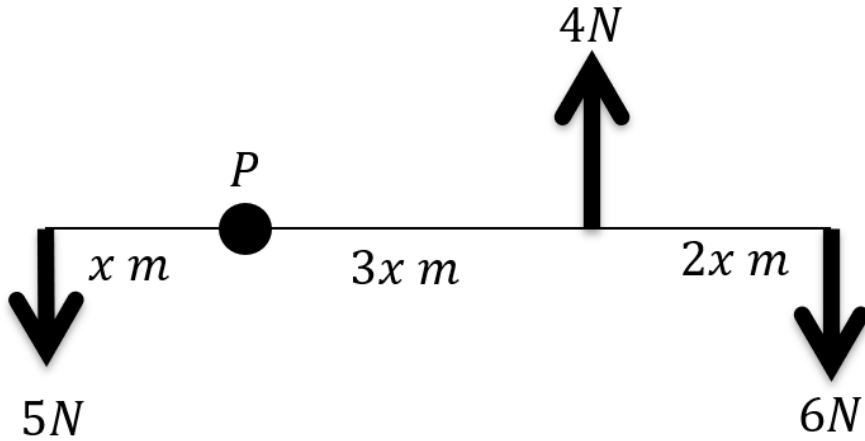
Two forces act on a lamina. Calculate the resultant moment about the point P .



5.31 Nm clockwise (3 sf)

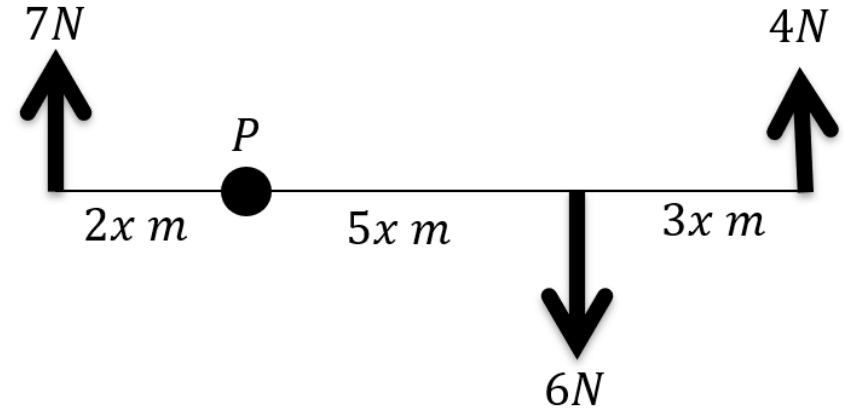
Worked example

A set of forces act on a light rod.
The resultant moment of P is 26 Nm
clockwise. Find the value of x



Your turn

A set of forces act on a light rod.
The resultant moment of P is 48 Nm
clockwise. Find the value of x



$$x = 4$$