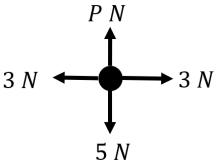
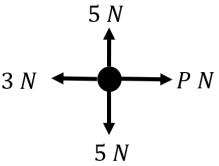
10.1) Force diagrams

## Worked example

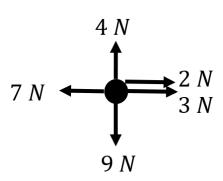
Draw a force diagram to represent the resultant force:



Draw a force diagram to represent the resultant force: 5 *N* 



$$R(\uparrow): 0 N \\ R(\to): (P-3)N$$
  $(P-3) N$ 

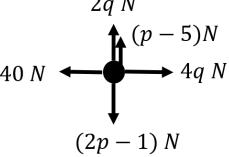


## Worked example

Your turn

A particle is acted on a by a set of forces. Given that the particle is at rest, find the values of p and q 2q N

A particle is acted on a by a set of forces. Given that the particle is at rest, find the values of p and q p N



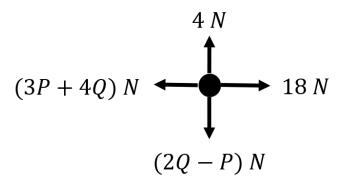
$$\begin{array}{c}
3p N \\
 & \downarrow \\$$

p = 16, q = 10

## Worked example

Your turn

Given that the particle is moving with constant velocity, find the values of P and Q



Given that the particle is moving with constant velocity, find the values of  ${\it P}$  and  ${\it Q}$ 

