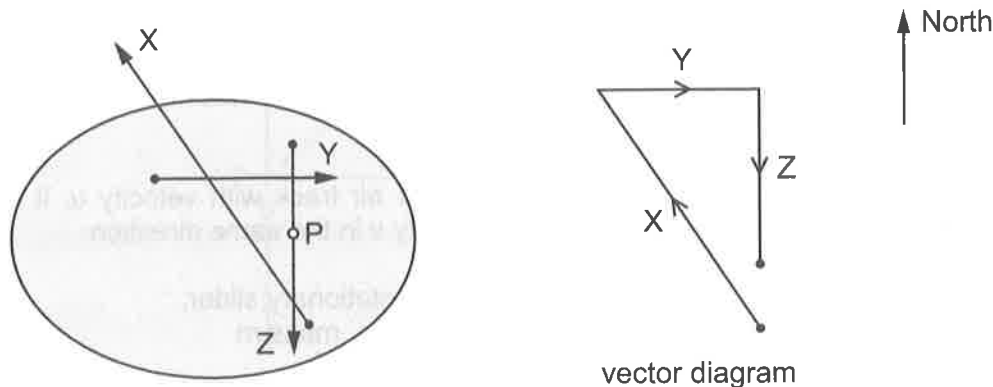


- 11 A flat horizontal body is free to rotate about point P. Three horizontal forces X, Y and Z act on it. Each of the forces acts on the body at the points in the diagram shown by the black dots.

When these three forces are represented on a vector diagram, they form a figure which is **not** closed.



What is the effect of these three forces?

- A resultant force towards North and clockwise moment about P
- B resultant force towards South and clockwise moment about P
- C resultant force towards North and anticlockwise moment about P
- D resultant force towards South and anticlockwise moment about P

- 12 A light rod XY is hinged at an angle of  $50^\circ$  to a wall at X and supported by a horizontal cord YZ