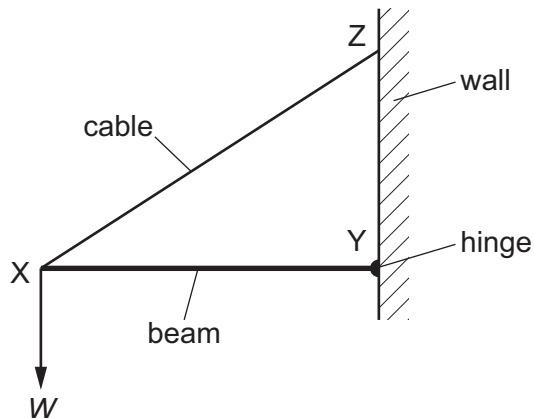


- 12** A thin horizontal beam XY is freely hinged at point Y to a vertical wall. The beam is held stationary by a cable XZ which is attached to the wall at point Z.



The beam supports a weight  $W$  at point X. The forces in the cable and the beam are  $F_C$  and  $F_B$  respectively.

Which vector triangle represents the forces acting on point X?

