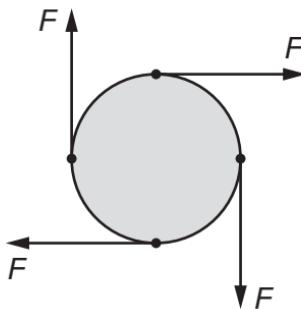


- 17 The diagram shows four forces acting on a circular disc.



Each force has magnitude  $F$ . Two of the forces act vertically and the other two forces act horizontally.

All four forces act in the same plane as the disc. No other forces act on the disc.

The disc has diameter  $d$ .

Which statement is correct?

- A** The disc is in equilibrium because the resultant force is zero.
- B** The disc is **not** in equilibrium because the resultant force is  $4F$ .
- C** The disc is in equilibrium because the resultant torque is zero.
- D** The disc is **not** in equilibrium because the resultant torque is  $2Fd$ .