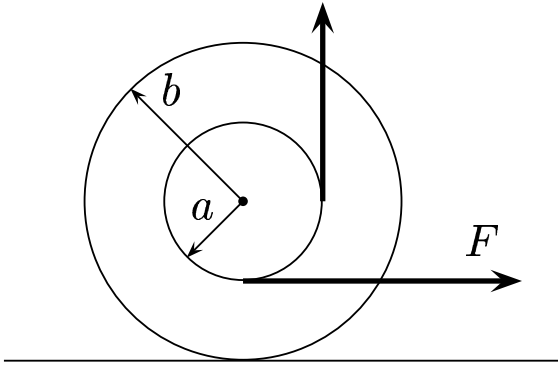


Consider the setup of a “walking dog”, which is a “yo-yo” spool wrapped around by a string. It has an inner radius a and outer radius b .



Case A : When the rope is pulled vertically, the spool rolls to the left.

Case B : As the rope is pulled to the right, which direction will the spool roll.

A) right.

B) left.

Pivoting about the contact point, for case B one sees that there is a clockwise torque given by $\tau = F \times (b - a)$.

Answer **A**.

10.06-03 Walking Dog 2006-10-10