Angle A

Z

Y

Point P

X

The circular disk rotates with a constant angular velocity w=40 rads/sec about its axis which is inclined in the Y-Z plane at the angle A = arctan ¾.

Determine the vector expressions for the velocity and acceleration for point P located on the rim), whose position vector at the instant shown is **r = 15i + 16j -12k in.**

Ans. **V = 40(-20i+12j-9k)**

 **A = 1600(-15i – 16j +12k)**