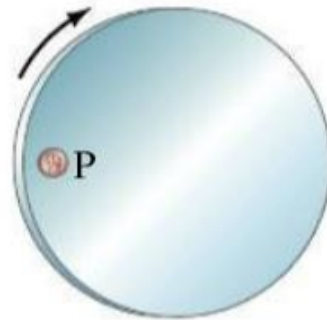
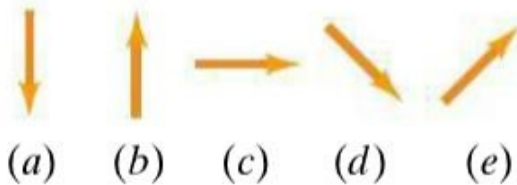


NAME:

SECTION:

1.

A penny is placed on a turntable which is spinning clockwise as shown in Fig. 5-37. If the power to the turntable is turned off, which arrow best represents the direction of the acceleration of the penny at point P while the turntable is still spinning but slowing down?

**FIGURE 5-37**

2. Which of the following is closest to the speed required for an object on the surface of Mars to enter a circular orbit? *Given:* radius of Mars is $3.4 \times 10^6 m$, mass of Mars is $6.4 \times 10^{23} kg$, and $G = 6.67 \times 10^{-11} m^3/kg/s^2$.

(a): 0.9km/s

(b): 1.8km/s

(c): 3.5km/s

(d): 4.5km/s

(e): 5.4km/s