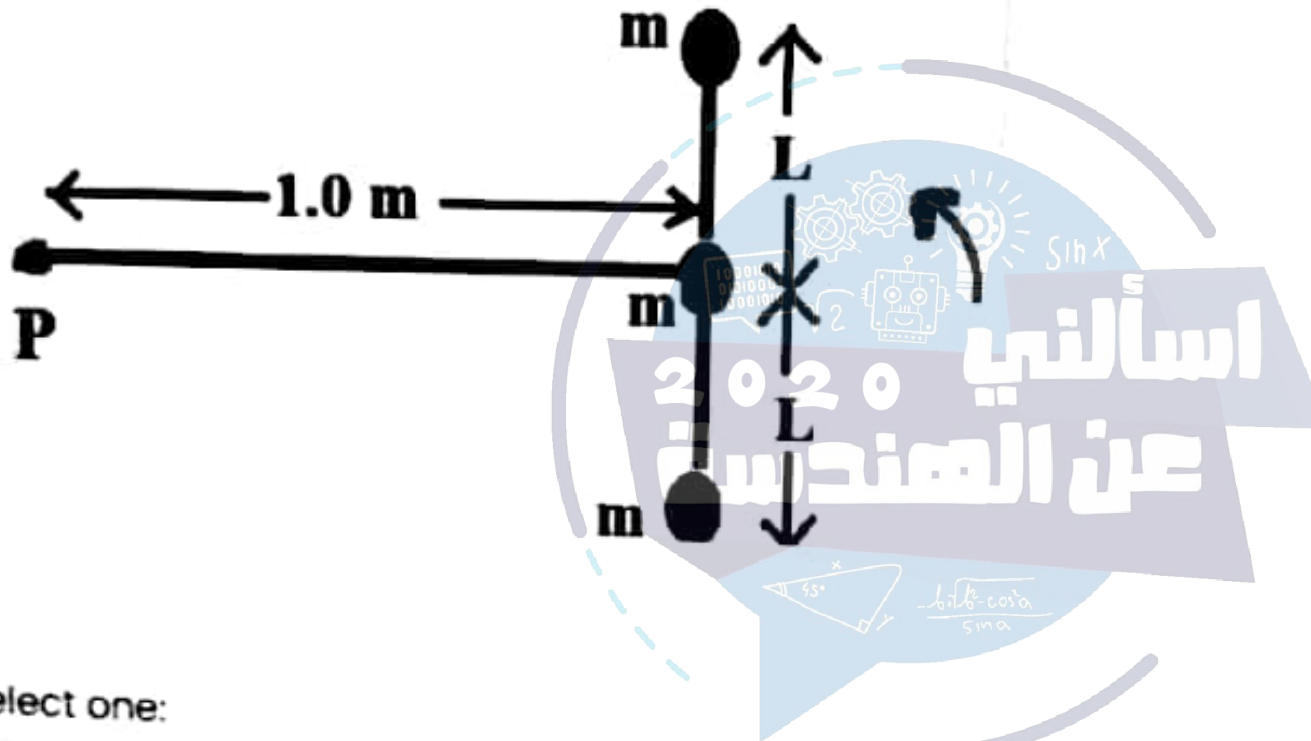A disc initially rotating clockwise at 7.00 rev/s makes five revolutions clockwise then 4.50 revolutions counterclockwise, all in a time of five seconds. The average angular acceleration (in rad/s^2) during this interval is:

Select one:

○ 22.4

○ 74.8

○ 17.3

○ 2.8

○ 17.8

Three identical small balls each with mass 0.2 kg m are connected with massless rods as shown in the figure. The combination is rotating counterclockwise with an angular speed o 3.00 rad/s around an axis passing through the point P and perpendicular to the plane of th rods. If L = 0.3 m, then the rotational kinetic energy (in J) of the system is:

m

L

←————— 1.0 m —————→

P

m

L

m

Select one:

- ● 2.9
- ○ 19.5
- ○ 2.7
- ○ 2.0
- ○ 0.16

A wheel starts at rest, and has an angular acceleration of 4 rad/s^2. Through what angle (in radian) does it turn in 3.0 sec? *

(2 نقطة)

18

32

72

50

A disc initially rotating clockwise at 2.00 rev/s makes three revolutions clockwise then 3.50 revolutions counterclockwise, all in a time of four seconds. The average angular acceleration (in rad/s^2) during this interval is:

Select one:

- 5.9

- 38.1

- 6.7

- 1.1

- 11.4

A disc initially rotating clockwise at 4.00 rev/s makes three revolutions clockwise then 6.50 revolutions counterclockwise, all in a time of five seconds. The average angular acceleration (in rad/s^2) during this interval is:

Select one:

○ 8.3

○ 1.9

◉ 14.8

○ 49.6

○ 11.8

Clear my choice

wheel of radius R = 0.50 m rolls without slipping along a road and makes 10 complete revolutions, how far did the wheel roll?

Select one:

○ a. 62.8 m

○ b. 5.0 m

○ c. 31.4 m

○ d. 7.85 m

○ e. 15.70 m