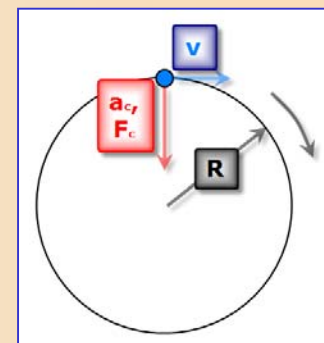


Higidura zirkularra: ebazpenak

Magnitudea	Balioa
m (masa)	2 kg
R (erradioa)	50 cm
T (periodoa)	
f (maiztasuna)	
v (ab. lineala)	4 m/s
w (ab. angeluarra)	
a _c (azelerazioa)	
F (indarra)	

Osatu taula



$$v = \omega \cdot R \rightarrow \omega = \frac{4 \text{ m/s}}{0.5 \text{ m}} = \boxed{8 \text{ rad/s}}$$

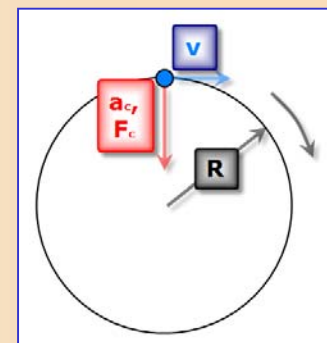
$$a_c = \frac{v^2}{R} = \frac{(4 \text{ m/s})^2}{0.5 \text{ m}} = \boxed{32 \text{ m/s}^2} \rightarrow F = m \times a_c = \boxed{64 \text{ N}}$$

$$\omega = \frac{2\pi}{T} \rightarrow T = \frac{2\pi}{\omega} = \frac{2\pi}{8 \text{ rad/s}} = \boxed{0.79 \text{ s}}$$

$$f = \frac{1}{T} = \frac{1}{0.79 \text{ s}} = \boxed{1.27 \text{ Hz}}$$

Higidura zirkularra: ebazpenak

Osatu taula



Magnitudea	Balioa
m (masa)	4 kg
R (erradioa)	1.2 m
T (periodoa)	
f (maiztasuna)	
v (ab. lineala)	
w (ab. angeluarra)	
a_c (azelerazioa)	
F (indarra)	10 N

$$F = m \times a \rightarrow a_c = \frac{F}{m} = \frac{10 \text{ N}}{4 \text{ Kg}} = \boxed{2.5 \text{ m/s}^2}$$

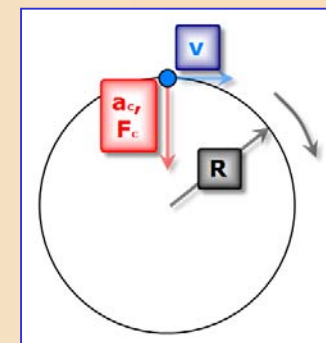
$$a_c = \frac{v^2}{R} \rightarrow v = \sqrt{a_c \cdot R} = \sqrt{2.5 \frac{\text{m}}{\text{s}^2} \times 1.2 \text{ m}} = \boxed{1.73 \text{ m/s}}$$

$$v = \omega \cdot R \rightarrow \omega = \frac{v}{R} = \frac{1.73 \text{ m/s}}{1.2 \text{ m}} = \boxed{1.44 \text{ rad/s}}$$

$$\omega = \frac{2\pi}{T} \rightarrow T = \frac{2\pi}{\omega} = \frac{2\pi}{1.44 \text{ rad/s}} = \boxed{4.36 \text{ s}}$$

$$f = \frac{1}{T} = \frac{1}{4.36 \text{ s}} = \boxed{0.23 \text{ Hz}}$$

Higidura zirkularra: ebazpenak



Osatu taula

Magnitudea	Balioa
m (masa)	2 kg
R (erradioa)	0.4 m
T (periodoa)	
f (maiztasuna)	
v (ab. lineala)	
w (ab. angeluarra)	1200 rpm
a _c (azelerazioa)	
F (indarra)	

$$\omega = 1200 \frac{\text{rev}}{\text{min}} \cdot \frac{1 \text{ min}}{60 \text{ s}} \cdot \frac{2\pi \text{ rad}}{1 \text{ rev}} = 125.7 \text{ rad/s}$$

$$v = \omega \cdot R = 125.7 \frac{\text{rad}}{\text{s}} \times 0.4 \text{ m} = \boxed{50.28 \text{ m/s}}$$

$$a_c = \frac{v^2}{R} = \frac{(50.28 \text{ m/s})^2}{0.4 \text{ m}} = \boxed{6320 \text{ m/s}^2}$$

$$F = m \times a = 2 \text{ kg} \times 6320 \text{ m/s}^2 = \boxed{12640 \text{ N}}$$

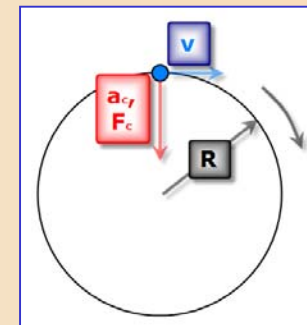
$$\omega = \frac{2\pi}{T} \rightarrow T = \frac{2\pi}{\omega} = \frac{2\pi}{125.7 \text{ rad/s}} = \boxed{0.05 \text{ s}}$$

$$f = \frac{1}{T} = \frac{1}{0.05 \text{ s}} = \boxed{20 \text{ Hz}}$$

Higidura zirkularra: ebazpenak

Magnitudea	Balioa
m (masa)	25 kg
R (erradioa)	2 m
T (periodoa)	
f (maiztasuna)	12 Hz
v (ab. lineala)	
w (ab. angeluarra)	
a _c (azelerazioa)	
F (indarra)	

Osatu taula



$$f = \frac{1}{T} \rightarrow T = \frac{1}{12 \text{ Hz}} = \boxed{0.083 \text{ s}}$$

$$\omega = \frac{2\pi}{T} = \frac{2\pi}{0.083 \text{ s}} = \boxed{75.7 \text{ rad/s}}$$

$$v = \omega \cdot R = 75.7 \frac{\text{rad}}{\text{s}} \times 2 \text{ m} = \boxed{151.4 \text{ m/s}}$$

$$a_c = \frac{v^2}{R} = \frac{(151.4 \text{ m/s})^2}{2 \text{ m}} = \boxed{11461 \text{ m/s}^2}$$

$$F = m \times a = 25 \text{ kg} \times 11461 \text{ m/s}^2 = \boxed{286525 \text{ N}}$$