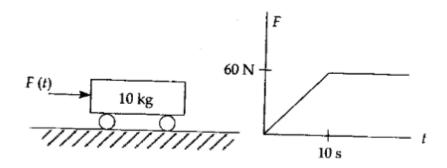
	Dy	vnamics
_		
1		fultiple Choice 1 point
	An o	object experiences rectilinear acceleration $a(t) = 10 - 2t$. How far does it travel in 6 seconds if its initial velocity is 10 m/s?
		168 m
		142 m
		182 m
	\bigcirc	126 m
2	M	fultiple Choice 1 point
	A w befo	heel is rotating at 4000 rpm. If it experiences a deceleration of 20 rad/s ² , through how many revolutions will it rotate ore it stops?
		4400
		2100
		700
		320
3	M	1ultiple Choice 1 point
	A sm	nall rotating robotic arm weighs 6.5 N and has a mass radius of gyration of 5.0 cm. The mass moment of inertia (kg*cm²) is t nearly:
		162.5
		13.0
		16.6
		10.6

4.50

The force F(t) acts on the mass shown. What is its velocity after 20 s if it starts from rest?



- () 60 m/s
- 80 m/s
- 70 m/s
- 90 m/s

Multiple Choice 1 point

A wheel begins to rotate about an axis through its center with constant angular acceleration $\alpha=3~\frac{rad}{sec}$ starting from rest? The number of revolutions it completes until it achieves an angular velocity of 100 rpm is most nearly:

- 2.91
- 4.27
- 18.3
- 0 10.5