Physics Area		Sec (1)	Mrs. Marwa Ahmed	
First: Multiple choice				
1) The product of the a) force	e mass of a body and th b) momentum	ne rate of change of its c) acceleration	displacement it called d) weight	
 2) If the momentum of an object is doubled an a) doesn't change c) increase to the double 		d and its mass decrease b) decreases to ha d) increases four t	nd its mass decreased to half, its velocity b) decreases to half d) increases four times	
3) The diagram represents the relation between the momentum and the velocity of an object				
$\sqrt{p}(\text{kg.m/s})^{\frac{1}{2}}$	p(kg.m/s) ♠	p(kg.m/s)	p(kg.m	
v(m/s)	√v(m/s (b)	$()^{\frac{1}{2}}$ (c)	m/s) v ² (m/s)	
 4) When a body falls freely towards the ground its a) momentum increases b) mass increases c) acceleration decreases d) velocity decreases 				
5) An object of mass 0.5 kg at rest, started to fall from a height of 180 cm from the surface of Earth. Its momentum when it reaches the Earth's surface is				
a) 3 kg.m/s	b) 5 kg.m/s	c) 6 kg.m/s	d) 9 kg.m/s	
6) A firefighting airplane dropped its load into a firing forest when it was flying horizontally at a constant velocity and continued its motion by the same velocity, so the momentum of the airplane after dropping the load would				
a) increase c) remains unchanged		b) decrease d) becomes zero		
7)Two bodies have the same momentum, one of them has a mass of 5 kg and its velocity is 20 m/s, hence if the second one has a mass of 15 kg,its velocity equals				
a) 0.15 m/s	b) 5.55 m/s	c) 6.67 m/s 1	d) 20 m/s	



a) 3 kg.m/sb) 5 kg.m/sc) 6 kg.m/s cd) 9 kg.m/s15) The next graph represents four cases for the motion of a body, so which graph representthe body that has the largest value of momentum?.....

