ID	Quest	ions	Question Image
1	When the mass is doubled and the velocity is halved, the kinetic energy will change by a factor of		$E_{\rm k} = \frac{1}{2}  m v^2$
	В.	1/2	
	C.	2	
	D.	4	
2		the velocity is doubled and the mass is halved the kinetic energy will by a factor of	$E_{\rm k} = \frac{1}{2}  m v^2$
	A.	1/4	K 2
	В.	1/2	
	C.	2	
	D.	4	
3		tential difference is doubled and the resistance is halved. The power ange by a factor of	$P = \frac{V^2}{V}$
	A.	1	R = R
	В.	2	
	C.	4	
	D.	8	

4	When t	the potential difference is halved and the resistance is halved, the	2
	power	will change by a factor of	$V^2$
	A.	1/8	$P = \frac{1}{R}$
	В.	1/4	
	C.	1/2	
	D.	1	
5	Two wi	res made from the same metal have identical lengths. Wire X has half	8 <u>~</u>
		meter as wire Y. The ratio of the resistance of wire X to the resistance	$\rho L$
••••		Y will be	$R = \frac{\rho L}{A}$
	A.	1:4	
	В.	1:2	
	C.	1:1	
	D.	4:1	
6		X has twice the cross-sectional area and twice the length as wire Y	$\alpha I$
	made c	of the same metal. The ratio of the resistance of wire X to the	$R = \frac{\rho L}{\Lambda}$
	resista	nce of wire Y	A - A
	A.	1:4	7.1
	B.	1:2	
	C.	1:1	
	D.	2:1	

7			
		ject is dropped from rest and falls freely under gravity. Neglecting the of air resistance and other forces, the final velocity will depend on	$E_{\rm k} = \frac{1}{2}  m v^2$
	A.	h and m	K 2
	В.	m and g	100
	C.	g and h	$E_{\rm p} = mgh$
	D.	g , h and m	
8		sistance is halved and the current is halved. The power will change by	n -2n
•=	a facto	or ot	$P = I^2 R$
ŏ=	A.	1/8	
	В.	1/4	
	C.	1/2	
	D.	1	
9			1 .
		ng has its extension doubled . The energy stored in the spring will e by a factor of	$E = \frac{1}{2} kx^2$
	A.	1/4	
	В.	1/2	
	C.	2	
	D.	4	
	1		

10		orrent is changed a factor of 1/4 and the resistance is increased by a of 4. The change in the power dissipated will be a factor of	$P = I^2 R$
	A.	1/16	
	В.	1/8	
	C.	1/4	
	D.	1	