Name_

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Show your work, and circle your answers and use sig figs to receive full credit.

When you have finished this, go to the website and check your answers. If you got a problem wrong, cross it off on the front, and do it correctly on the back. 1. If it takes +34.0 J of work to move a -250. μ C charge from plate A to plate B, what is the potential difference, and which plate is more positive, A or B?

2. What is the velocity of a proton accelerated through 3.70 Volts from rest?

a motor.					
(A		,	p	
C				K	
			q		
	В	,			
6					

3. Find the electric potential **at point p and point q**. Charge A is $-3.10 \ \mu$ C, B is $+2.60 \ \mu$ C, and each grid line is a meter.

4. What work would it take to move a +370. μ C charge from point q to point p?

5. A 5.20 kg piece of rock is in an elliptical orbit around a 4.80×10^{24} kg planet. At one point in time, its velocity is 6790 m/s when it is at a distance of 8.40×10^{6} m from the planet's center. What is its distance from the planet's center when it is going 5860 m/s?