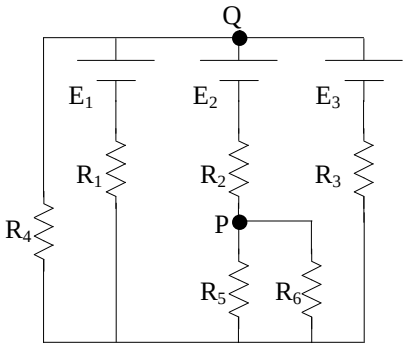
Physics 132 Name_____

Recitation Instructor (circle one): Dick Jane Sally Pete Spot

QUIZ #5 **25 points, 18 minutes** SCORE_____

The component values are:
$E_1 = 10$ V, $E_2 = 20$ V, $E_3 = 30$ V,
$R_1 = 100\ \Omega$, $R_2 = 200\ \Omega$, $R_3 = 300\ \Omega$, $R_4 = 400\ \Omega$, $R_5 = R_6 = 1000\ \Omega$.



Battery #1 is being charged and its current is 32.4 mA.
Battery #3 is supplying power to the circuit and its current is 55.9 mA.

Find the following:

(a) The power dissipated by the resistor R_1.
(b) The voltage across the resistor R_4.
(c) The current through battery E_2. Also, is this battery supplying power to the circuit or being charged?
(d) The current through resistor R_5.
(e) $V_P - V_Q$

QUIZ #6 **25 points, 18 minutes** SCORE_____