

(2pts) 1.

Rank in order, from largest to smallest, the three currents I_1 to I_3 .

Order:

Explanation:

$$I_1 > I_2 > I_3$$

By jcn rule: $I_1 = I_2 + I_3$

$$\therefore I_1 > I_2, I_1 > I_3$$

R_2 in ~~parallel~~ parallel w/ R_3

$$\therefore \Delta V_{R_2} = \Delta V_{R_3}$$

$$\therefore I_2 R_2 = I_3 R_3$$

$$\therefore I_2 = I_3 \frac{R_3}{R_2} = I_3 \frac{2R}{R} = 2I_3$$

$$\therefore I_2 > I_3.$$

