Urinary: Clearance and Reabsorption

Use data blow to answer questions:

Renal inulin clearance: \( 120 \text{mL / min.} \)

[inulin] arterial plasma: \( 0.5 \text{ mg / mL} \)

Hematocrit: \( 0.45 \)

Renal PAH clearance: \( 650 \text{ mL / min.} \)

[glucose] arterial plasma: \( 0.8 \text{ mg / mL} \)

[glucose] urine: \( 0.00 \text{ mg / mL} \)

Rate of urine formation: \( 0.6 \text{ mL / min.} \)

Estimate the following:

1. Plasma flow rate in the afferent arterioles: 
2. Blood flow in the afferent arterioles: 
3. Plasma flow rate in the efferent arterioles: 
4. Blood flow in the efferent arterioles: 
5. Plasma flow rate in the renal veins: 
6. Rate of glucose reabsorption: 
7. Concentration of inulin in urine: 
8. Inulin excretion rate: 
9. Glomerular filtration rate: