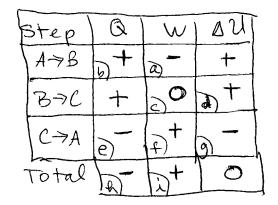


Complete the Table



$$B \rightarrow C$$
: const V : • $W = 0$ (c)

· Note area under curve : + Work, C > A greater magnitude than

So: What (i)
therefore
$$Q_{c\rightarrow A}$$
 (e)

What is Wnet?

$$W_{A \to B} = -PAV = -(20 Pa)(3-1 m^3) = -40 J$$

WCJA: Pnot constant: linear function in V P=mV+b $M = \frac{\Delta P}{\Delta V} = \frac{-20}{-2} = 10$ P(V) = 10 V + 6 @ V=1, P=20 20=10(1)+b b = 10 P(V) = 10V + 10 WC=A= - ((10V+10) dV $=\frac{3}{-10V^2}\Big|_{2}-10V\Big|_{2}$ =-5(1-9)-10(1-3)= +40 +2D WC-7A = 60 J

Note: area of triangle is 20 J