

# Exam

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A  $W_3 > W_1 = W_4 > W_2$

B  $T_3 > T_2 > T_4 > T_1$

C  $\eta_3 > \eta_1 > \eta_4 > \eta_2$

work is the area of the shape  
Temp increases as you go up and  
right. whatever the units  
- P.V. will be proportional to temp  
and will be comparable to  
the other values so sorting  
based off of the product of  
the two coordinates make sense

$$1: 1 - \frac{1.1}{2.4} = 87.5\%$$

$$2: 1 - \frac{4.1}{4.4} = 79\%$$

$$3: 1 - \frac{2.1}{5.4} = 90\%$$

$$4: 1 - \frac{2.1}{5.2} = 80\%$$

PV is proportional to temp  
so the ratio between  
two of these values will  
be the true ratio between  
the temps