Chapter 5 Question #3

For the following cycle which statement is correct?

1) Leg 1: \( Q < 0, \ W < 0 \)
2) Leg 2: \( Q > 0, \ W = 0 \)
3) Leg 3: \( Q > 0, \ W < 0 \)
4) Leg 4: \( Q < 0, \ W > 0 \)
5) None of the above

Dashed = adiabats, Solid = isotherms
Chapter 5 Question 3 Answer:

(5) None of the above

Correct answers:

Leg 1: Q=0, W<0

Leg 2: Q>0, W>0

Leg 3: Q>0, W>0

Leg 4: Q<0, W=0