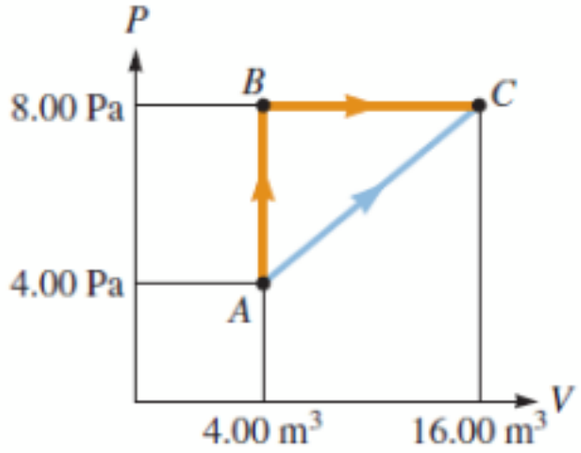
In the figure below, an ideal gas undergoes a change in state from *A* to *C* by two different paths: *ABC* and *AC*.



(a) Along which path is the least amount of work done by the gas?

- ○ ABC
- ◉ AC ✔

(b) If the thermal energy of the gas at *A* is 17 J and the heat transferred to the gas along the path *AC* is 230 J, find the thermal energy of the gas at *C*.

175 ✔ J

(c) If the thermal energy of the gas at state *B* is 28 J, find the amount of heat added to the gas to change its state from *A* to *B*.

✖

Your response differs from the correct answer by more than 10%. Double check your calculations. J