

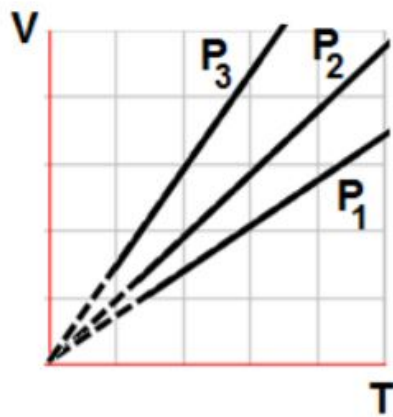
NAME:

SECTION:



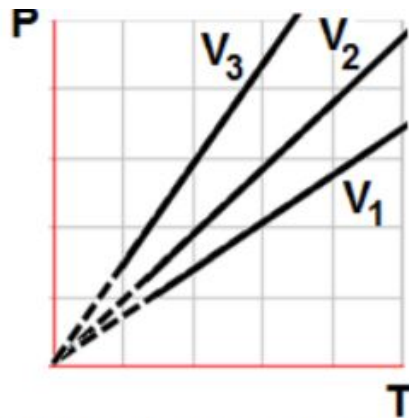
The state of an ideal gas was changed three times at three different temperatures. The diagram represents three different isothermal curves. Which of the following is true about the temperature of the gas?

- (A)  $T_1 > T_2 > T_3$
- (B)  $T_1 > T_2 < T_3$
- (C)  $T_1 < T_2 < T_3$
- (D)  $T_1 > T_2 = T_3$
- (E)  $T_1 = T_2 > T_3$



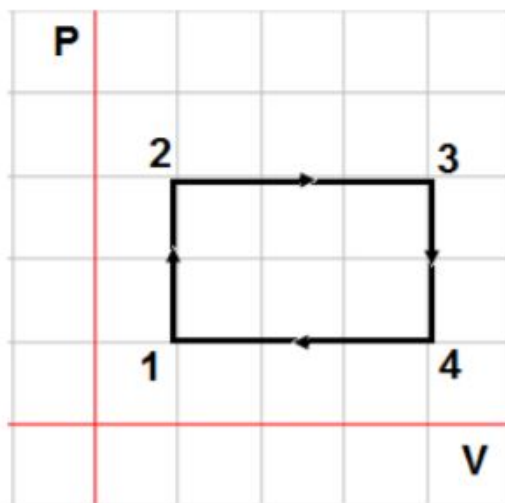
The state of an ideal gas was changed three times in a way that the pressure stays the same. The graph represents three isobaric lines. Which of the following is true about the pressure of the gas?

- (A)  $P_1 > P_2 > P_3$
- (B)  $P_1 > P_2 < P_3$
- (C)  $P_1 < P_2 < P_3$
- (D)  $P_1 = P_2 > P_3$
- (E)  $P_1 > P_2 = P_3$



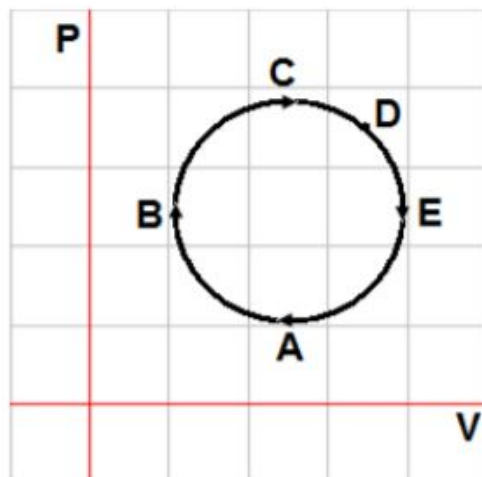
The state of an ideal gas was changed three times in a way that the volume stays the same. The graph represents three isobaric lines. Which of the following is true about the volume of the gas?

- (A)  $V_1 > V_2 > V_3$
- (B)  $V_1 > V_2 < V_3$
- (C)  $V_1 < V_2 < V_3$
- (D)  $V_1 = V_2 > V_3$
- (E)  $V_1 > V_2 = V_3$



The state of an ideal gas is changed in a closed path  $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 1$ . Which of the following is true about work done on the gas?

	Work $1 \rightarrow 2$	Work $2 \rightarrow 3$	Work $3 \rightarrow 4$	Work $4 \rightarrow 1$
(A)	$W > 0$	$W = 0$	$W < 0$	$W = 0$
(B)	$W < 0$	$W = 0$	$W = 0$	$W > 0$
(C)	$W < 0$	$W = 0$	$W > 0$	$W = 0$
(D)	$W = 0$	$W > 0$	$W = 0$	$W < 0$
(E)	$W = 0$	$W < 0$	$W = 0$	$W > 0$



An ideal gas undergoes a cyclic process presented by the P-V diagram. Which of the following points has the highest temperature?

- (A) A      (B) B      (C) C      (D) D      (E) E