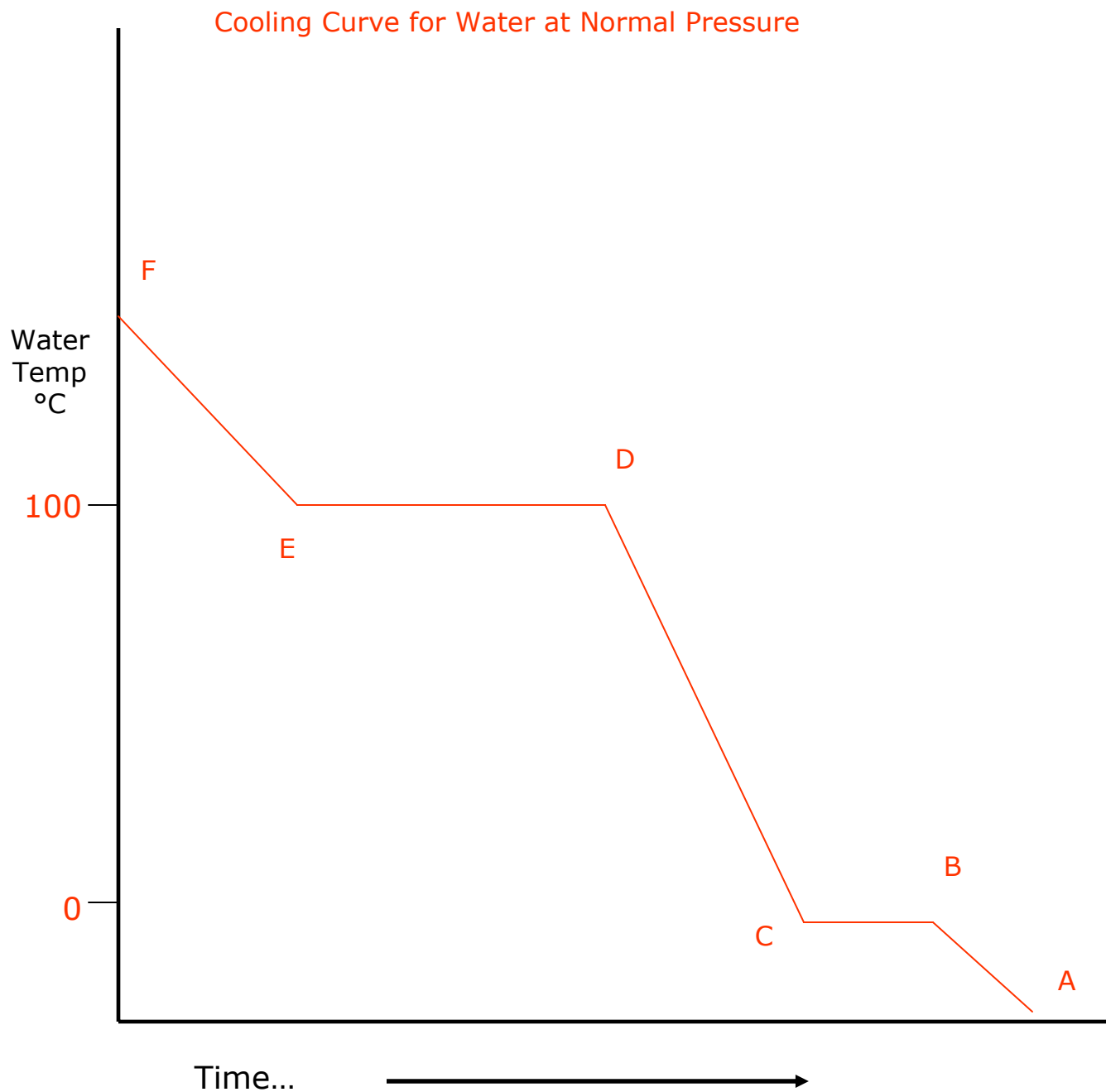


Phases HW #3

ANSWERS

Directions: read phases diary, read chapter 10, draw a NEAT cooling curve for water below. Use dots at the end of each line segment, label from F to A (top to bottom). Each line segment represents certain events happening to the water concerning temperature changes and changes in kinetic energy. Indicate those in the boxes.



line segment	Phase the H ₂ O is in what's happening to the kinetic energy?	what's happening to the potential energy?
FE	gas only kinetic energy decreasing	potential energy steady
ED	gas to liquid phase change kinetic energy steady	potential energy decreasing
DC	liquid only (disregarding the fact that there is always evaporation from liquid to gas, at any temperature) kinetic energy decreasing	potential energy steady
CB	liquid to solid phase change kinetic energy steady	potential energy decreasing
BA	solid only kinetic energy decreasing	potential energy steady

Page 3 instructs you to recopy the phase diagram in the text
from page 284 and to label it.

Just look in the book, you can't make errors on this.