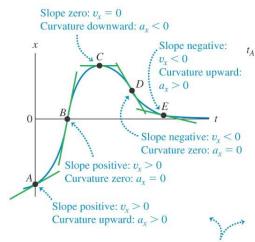
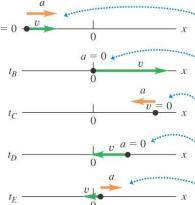
(a) x-t graph

(b) Object's motion







Object is at x < 0, moving in the +x-direction $(v_x > 0)$, and speeding up $(v_x \text{ and } a_x \text{ have the same sign})$.

Object is at x = 0, moving in the +x-direction $(v_x > 0)$; speed is instantaneously not changing $(a_x = 0)$.

Object is at x > 0, instantaneously at rest $(v_x = 0)$, and about to move in the -x-direction $(a_x < 0)$.

Object is at x > 0, moving in the -x-direction $(v_x < 0)$; speed is instantaneously not changing $(a_x = 0)$.

Object is at x > 0, moving in the -x-direction $(v_x < 0)$, and slowing down $(v_x$ and a_x have opposite signs).