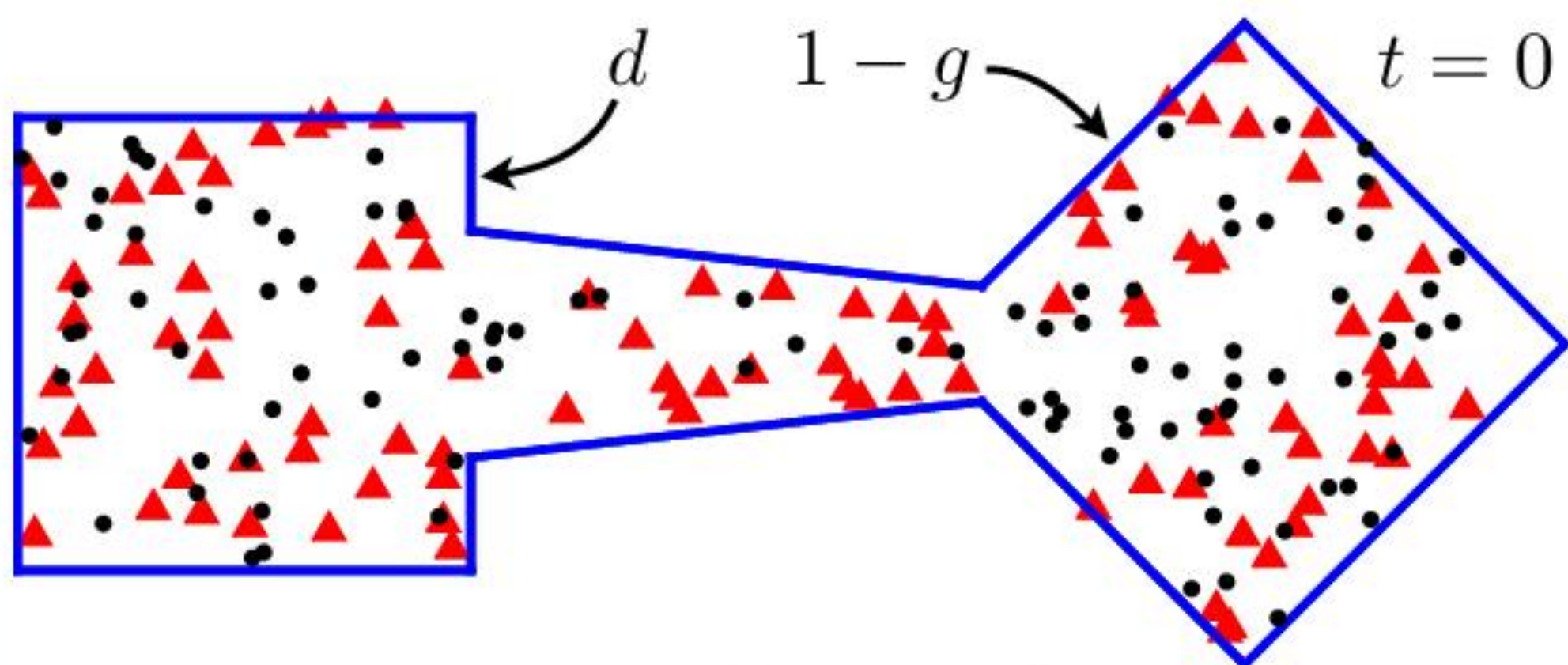
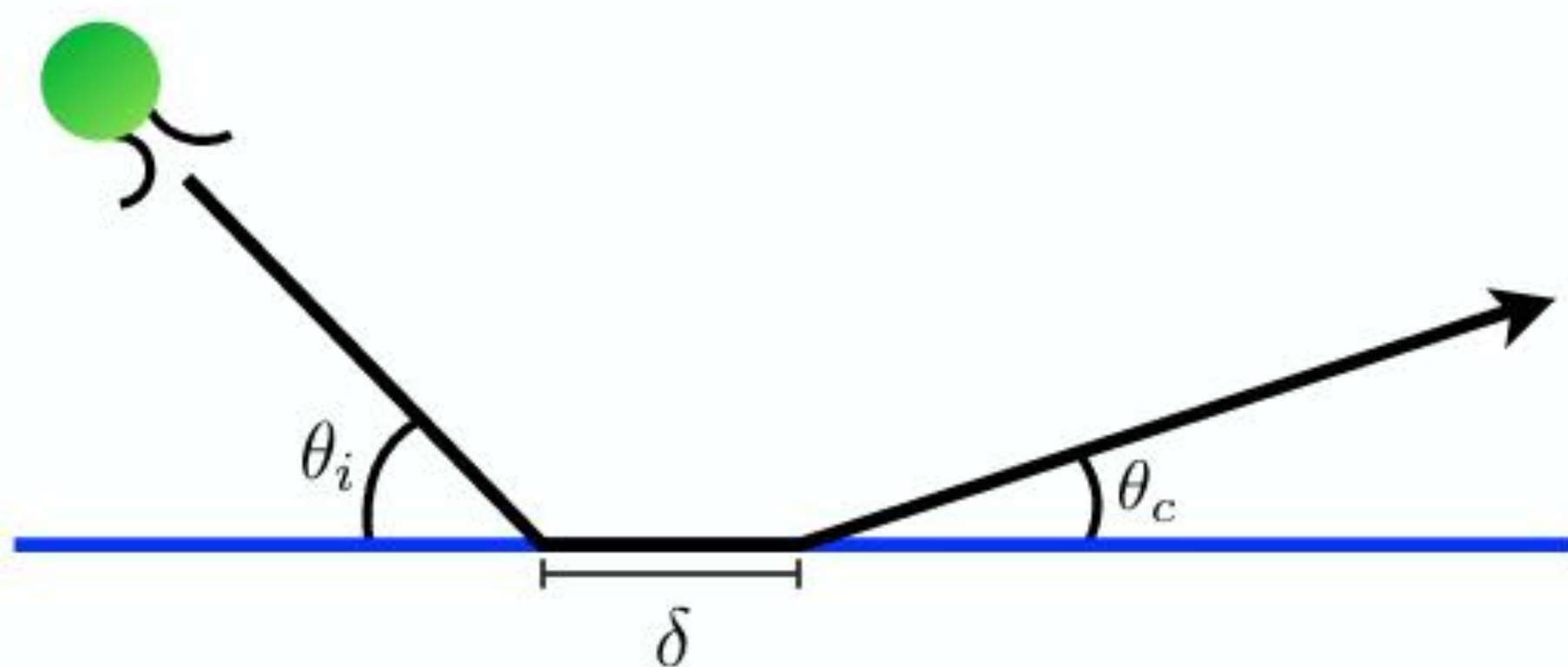


(a)



•  $\theta_c = 12^\circ$     $\blacktriangle$   $\theta_c = 20^\circ$

