

問題 1

$$(1) v_0 = \sqrt{\frac{gl}{\sin \theta \cos \theta}}$$

$$(2) t_1 = \sqrt{\frac{l \tan \theta}{g}}$$

$$(3) h_1 = h + \frac{l}{2} \tan \theta$$

$$(4) t_2 = \sqrt{\frac{1}{g}(2h + l \tan \theta)}$$

$$(5) l_1 = el \sqrt{1 + \frac{2h}{l \tan \theta}}$$

$$(6) e = \frac{1}{\sqrt{1 + \frac{2h}{l \tan \theta}}}$$

問題2

(1) $\frac{E}{L}$ [V/m]

(2) $\frac{eE}{L}$ [N]

(3) $nv\tau S$ [個]

(4) $env\tau S$ [A]