

[I] (i)(A)(1) (ウ) (2) (エ) (3) (ケ) (4) (コ) (a) 下図

(5) (セ) (6) (ウ) (7) (カ)

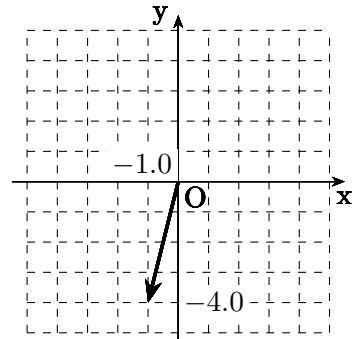
(B)(8) (ウ) (9) (カ)

(b)
$$\frac{m_A v_{Ax} + m_B v_{Bx}}{m_A + m_B}$$

(ii) (10) (ケ) (11) (イ) (12) (コ) (13) (ア)

(14) (キ) (15) (シ) (16) (セ)

(c)
$$\frac{mg}{k}(\sin \theta - \mu' \cos \theta)$$



1 目盛り 1.0 N・s とする。

[II] (i) (1) (イ) (2) (キ) (3) (サ) (4) (ズ) (5) (テ)

(a)
$$\frac{mgr^2}{kq} \tan \theta$$

(ii) (6) (チ) (7) (イ) (8) (エ) (9) (キ) (10) (オ)

(11) (ウ) (12) (カ) (13) (セ) (14) (シ) (15) (ズ)

(b)
$$\frac{S}{4\pi kd} \quad (c) \quad \frac{1}{2d}$$

[III] (i) (1) (コ) (2) (イ) (3) (ケ) (b) 下図

(4) (カ) (5) (エ) (6) (ケ)

(7) (サ) (8) (テ) (9) (ク)

(a)
$$\frac{v_2}{f_2}$$

(ii) (10) (シ) (11) (ア) (12) (キ)

(13) (オ) (14) (ケ) (15) (ケ)

(c)
$$\frac{hc}{eV}$$

