

1

問 1

(1)	$\frac{v}{r}$
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(2)	$m \frac{v^2}{r}$
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(3)	$k(r-l)$
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(4)	$\sqrt{\frac{k}{m} \left(1 - \frac{l}{r}\right)}$
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(5)	$\sqrt{\frac{k}{m}}$
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問 2

(6)	$m r \omega^2 \sin \theta$
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(7)	$k(r-l) \sin \theta$
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(8)	$\sqrt{\frac{k}{m} \left(1 - \frac{l}{r}\right)}$
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(9)	$k(r-l) \cos \theta$
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(10)	$\frac{mg}{k(r-l)}$
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(11)	$\sqrt{\frac{g}{r \cos \theta}}$
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(12)	$l + \frac{mg}{k}$
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2

問 1

(a)	(P)
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(1)	$L \frac{\Delta I}{\Delta t}$
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(2)	$\frac{E}{L}$
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(3)	$\frac{E}{R}$
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(4)	$\frac{L}{2} \left(\frac{E}{R}\right)^2$
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問 2

(5)	$\frac{1}{2\pi\sqrt{LC}}$
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(6)	$\frac{\pi\sqrt{LC}}{2}$
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(7)	$\frac{1}{2} C V_c^2$
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(b)	(1)
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(8)	$\frac{E}{R} \sqrt{\frac{L}{C}}$
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(9)	$\sqrt{\frac{L}{C}}$
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3

問 1

(1) R

(2) $\frac{r}{r-1} R$

問 2

(a) (\bar{P})

(3) $T_0 + \frac{Q}{C_p}$

(4) $\frac{R}{p_0} \left(T_0 + \frac{Q}{C_p} \right)$

(5) $\frac{R}{C_p} Q$

(6) $\left(1 - \frac{R}{C_p} \right) Q$

問 3

(b) (\bar{I})

(7) $\left(\frac{p_0 A}{p_0 A - F} \right)^{\frac{1}{r}} V_1$

(c) $(力)$

問 4

