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物理解答紙 **1**

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1

(1) $m \frac{v^2}{r_1} = G \frac{mM}{r_1^2}$

(2) $\frac{2\pi GM}{v^3}$

(3) $\frac{7}{3}$ 倍

(4) $-\frac{2}{21} m v^2$

(5) $r_2 v_2 = \frac{4}{3} r_1 v$

(6) $\frac{3}{7} m v_2^2 - \frac{9}{14} m v_2 v$

(7) (i) $\frac{1}{6}$ (ii) 8

採点欄

(1)

(2)

(3)

(4)

(5)

(6)

(7)

1 の 計

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物理解答紙 **2**

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2

(1) $\frac{3}{2} p_0 V_0$

(2) $Q = W$

(3) $\frac{5}{2} p_0 V_0$

(4) $\frac{2Q - 2p_0 V_0}{3p_0 V_0 + 2Q}$

(5) (ア)

(6) E

採点欄

(1)

(2)

(3)

(4)

(5)

(6)

2 の 評

物理解答紙 **3**

3

(1)

1.5 [A]

(2)

0 [V]

(3)

0.75 [A]

(4)

8.0 [H]

(5)

→

(6)

1.5 [V]

採点欄

(1)

(2)

(3)

(4)

(5)

(6)

3 の 計

物理解答紙 **4**

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4

(1)

$$2d = m\lambda$$

(2)

$$2d = (m + \frac{1}{2})\lambda$$

(3)

ア

(4)

$$\frac{L\lambda}{2D}$$

(5)

$$\frac{1}{n}$$

(6)

$$9.1 \times 10^{-5} \text{ [m]}$$

採点欄

(1)

(2)

(3)

(4)

(5)

(6)

4 の 計

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