

1. r r r
 2. a s a = r^2 r^2 a a

Algebra

if $A^r = A^1$ -1

if $A^r = A^1 \Rightarrow A^r = I + rA = I + rA$

$A^r = I + rA + \frac{r^2}{2}A^2 + \dots + \frac{r^{n-1}}{(n-1)!}A^{n-1} + r^n A^n$

$A^n = \frac{r^n - 1}{r} \rightarrow$ $\{1, 2, 3, \dots, n\}$ $\{1, 2, 3, \dots, n\}$

$A^n = \frac{r^n - 1}{r} = I + rA + \dots + r^{n-1}A^{n-1}$

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$$a_1 = \epsilon$$

$$a_2 = at + 1$$

$$a_3 = r \quad -r$$

$$a_4 = r \quad \uparrow$$

$$a_5 = at + 1 \quad \uparrow$$

$$a_6 = r = 1a$$

$$a_7 = 0$$

$$a_8 = at + r$$

$$a_9 = r$$

$$d = -r$$

$$\left[\frac{n}{k+r} \right] + a \xrightarrow{-r} \left[\frac{n-r}{k+r} \right]$$

$$\left[\frac{k-r}{k+r} \right]$$

$$\sum_{k=0}^n \left[\frac{k-r}{k+r} \right]$$

$$-1 - 1 + 0 + \dots + 0 = -r$$

$$a_n = an^n + bn + c \quad \dots \text{f}$$

$$a = \frac{1}{V_0} \times (-aa) = \frac{-1E}{V_0} = \frac{-1}{V_0}$$

$$\frac{-1}{V_0} \times Va + ab + c = 1E \Rightarrow -a + ab + c = 1E$$

$$ab + c = 1E$$

$$\frac{-1}{V_0} \times Ea + Vb + c = 1V, a \Rightarrow -a + Va + Vb + c = 1V, a$$

$$Vb + c = 1V$$

$$Vb + c = 1V$$

$$ab + c = 1E$$

$$Vb = 1 \quad b = E, \quad c = -1$$

$$a_n = \frac{-1}{V_0} n^n + En - 1 \Rightarrow a_1 = \frac{-1}{V_0} + E - 1 = \frac{-1E}{V_0}$$

$$a_1 a = \frac{-1}{V_0} \times Va + E(a-1) = 1E$$

(P, A)

$$\frac{1E}{\frac{-1E}{V_0}} = \boxed{V_0}$$

$$a_E = a_1 + Vd$$

$$a_1 = a_1 + Vd$$

$$f_1 = 1 \cdot a + b = 0$$

$$b = -1 \cdot a \Rightarrow$$

Geometri

$$t_n = a_n - 1 \cdot a$$

$$a(n-1)$$

$$a_E = t_V = a(V-1) = -1 \cdot a = a_1 + Vd$$

$$a_1 + Vd = \underbrace{a(V-1)}_{-1 \cdot a}$$

DATE / /

Subject:

Ans 1)

$$(a_1 + r^2d) - (a_1 + r^3d) = (r^2a) - (r^3a)$$

$$rd = r^2a \Rightarrow d = \frac{r}{r^2} a$$

$$r_1a = a(r_1a - 1_0) = r^2a$$

$$\frac{r_1a}{d} = \frac{r^2a}{\frac{r}{r^2} a} = \boxed{r^3}$$

b = h

c = b + d

a = h

v

DATE / /

Subject:

$$\frac{d}{dt}(a+u)^n = n(a+u)^{n-1} \frac{d}{dt}(a+u) = n(a+u)^{n-1} \frac{du}{dt}$$

$$\frac{d}{dt}(a+u)^n + \frac{d}{dt} = n(a+u)^{n-1} \frac{du}{dt} + \frac{d}{dt}$$

$$\Rightarrow \frac{d}{dt}(a+u)^n = n(a+u)^{n-1} \frac{du}{dt}$$

$$\frac{d}{dt}(a+u)^n = n(a+u)^{n-1} \frac{du}{dt}$$

$$\frac{d}{dt} = n(a+u)^{n-1} \frac{du}{dt}$$

$$\frac{d}{dt} = n(a+u)^{n-1} \frac{du}{dt}$$

$$b \rightarrow b \quad c \rightarrow b+d \quad a \rightarrow b-d$$

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$$b \circ \frac{1}{b} (b-d) \circ \frac{1}{d} (b+d)$$

$$\Rightarrow \frac{1}{d} (b-d) \cdot \frac{1}{b} = b \cdot \frac{1}{d} (b+d) \Rightarrow b^2 - rbd + d^2 =$$

$$b^2 + bd \Rightarrow d^2 = rbd = 0$$

$$d (d - r b) = 0 \quad \begin{matrix} \rightarrow d = 0 \\ \rightarrow d = r b \end{matrix}$$

$$\Rightarrow b \circ \frac{1}{b} (b - r b) \circ \frac{1}{d} (b + r b) \Rightarrow b \circ -b \circ b$$

$$r = -1 \Rightarrow r x - 1 = \boxed{-1}$$

$$a, b, c$$

$$\downarrow \quad \downarrow \quad \downarrow$$

$$a \quad ar \quad ar^2$$

-A

$$c, ra, rb \Rightarrow rb + c = ra$$

$$rar + ar^2 = ra$$

$$ar(r+1) = ra$$

$$r^2 + r - 1 = 0$$

$$D = b^2 - 4ac = 9 + 4 = 13$$

$$r = \frac{-1 \pm \sqrt{13}}{2}$$

$$\frac{ar^2}{ar} = \frac{ar^1}{ar^0} = r^1 \Rightarrow 1, (-1)$$

1

-1

$$\frac{ar^2}{ar^2} + \frac{ar}{ar} = r \Rightarrow \frac{r^2}{a^2} + \frac{r}{a} = r$$

$$\frac{r}{a} = x \quad x^2 + x = r$$

$$x^2 + x - r = 0 \begin{cases} x = 1 = \frac{r}{a} \rightarrow a = r \\ x = -r = \frac{r}{a} \rightarrow r = -ra \end{cases}$$

$$\frac{ar^2}{ar} = \frac{a}{r} \begin{cases} \frac{a}{ra} = \frac{1}{r} \\ \frac{a}{a} = 1 \end{cases}$$

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Subject:

$$aV = \sqrt{ae} \Rightarrow aV^2 = ae$$

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$$a^2V^2 = aV^2 \Rightarrow aV^2 = 1$$

$$aV = \sqrt{V} = aV^2 = aV^2$$

$$V^2 = \frac{1}{a} \quad V = \frac{1}{a} \quad a = \frac{1}{V^2}$$

$$\frac{1}{V^2} = \frac{1}{\frac{1}{a}} = a$$