



f)  $a_d = 1f \quad a_v = 1V/r$

فرض کنیم

$ax^2 + bx + c$        $1f = \frac{-f \pm \sqrt{f^2 - 4 \cdot 1 \cdot c}}{2 \cdot 1}$        $1V/r = \frac{-f \pm \sqrt{f^2 - 4 \cdot 1 \cdot c}}{2}$

$\frac{1}{x} = \frac{1f}{x} = \frac{-1}{2} = a$        $1f = 2b + c$        $\frac{1f}{2} = rV = vb + c$

$\frac{1}{2} \times 10 \times 10 + f \times 10 = -1$        $c = -1$        $vb + c = rV$   
 $\frac{-1}{2} + f = -1$        $-\frac{1}{2} + f = -1$        $-\frac{1}{2} + f = -1$        $-\frac{1}{2} + f = -1$        $-\frac{1}{2} + f = -1$        $-\frac{1}{2} + f = -1$

د)  $r_d + t_d = r_a + b$

ع)  $v_d + t_d = v_a + b$        $1 \cdot a + b = 2v$

$fd = da$        $b = -1 \cdot a$

$d = \frac{a}{r} a$

$\frac{1da + b}{d} \rightarrow \frac{1da - 1a}{\frac{da}{r}} = \frac{\frac{da}{r}}{\frac{da}{r}} = f$

4)  $4ar^r = 2a_p a + r_a a$        $4(a+d)^r = 2(a+fd) + r_a(a+d)$

$\frac{a+fd}{d} = \frac{a}{d} + r$        $4(a^2 + 2ad + d^2)^r = 2a^2 + 1oad + r_a^2 + r_a d$

$4a^2 + 4d^2 + r_a d = r_a^2 + 4d^2 + ad$

$0 = \frac{r_a^2}{dr} - 4 \frac{d^2}{dr} + \frac{ad}{dr} \rightarrow 0 = \frac{r_a^2}{dr} - 4 + \frac{a}{d}$

$\frac{a}{d} = \frac{-1 \pm \sqrt{1 - 4 \cdot (-4) \cdot r}}{r}$

v)  $a, b, c$

$b-d \quad b \quad b+d$

$b - r_b, b, b + r_b$

$-r_b \quad b \quad r_b$

$b \frac{b-d}{r} \quad \frac{b+d}{f}$

$\frac{b+d}{f} \times b = \left(\frac{b-d}{r}\right)$

$\frac{b^2 + bd}{f} = \frac{b^2 + d^2 - rbd}{f}$

$rbd = d^2$        $b, -r_b, r_b$

$\frac{-1}{f} \quad \frac{4}{r}$

$\frac{a}{d} = \frac{-1 \pm \sqrt{1 - 4 \cdot (-4) \cdot r}}{r}$

$r_b = d$        $b, -b, b$

$x-1 = -1$



$r_x - 1 = \sqrt{1 - 4 \cdot (-4) \cdot r}$

1)  $r^b, r^a, c$

$a, b, c$   
 $a, ar, ar^2$

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$$\frac{r^b + c}{r} = r^a$$

$$r^b + c = r^{a+1}$$

$$r^{a+1} + ar^a = r^a$$

$$r^{a+1} + r^a = r^a$$

$$r^{a+1} + r^a - r^a = 0$$

$$(r-1)(r+r^a) = 0 \quad r = 1 \rightarrow \boxed{-f}$$

$$\frac{ar^a}{ar^0} = r^a \rightarrow -f$$

2)

$$\frac{a_1}{(ar)^r} + \frac{a_2}{(ar)^r} = r$$

$$\frac{ar^{r+1} + ar}{ar^r} = r$$

$$\frac{r^r}{a} + \frac{r}{a} - r = 0$$

$$\frac{r}{a} = \frac{-1 \pm \sqrt{1 - 4x - 4x^2}}{r}$$

$$\frac{ar^r}{ar^r} = \frac{ar^r}{ar^r} = \frac{a}{r} \rightarrow \frac{-1}{a}$$

$$r = \frac{1}{r} \rightarrow \frac{-1}{r} = -a$$

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1.2)  $ar^r = \sqrt{ar^r} \quad ar^r = ar^r \quad ar = 1$

$$ar^r = r^r$$

$$a = \frac{1}{r}$$

$$1 \times r^r = r^r$$

$$\frac{1}{r} - \frac{1}{r} = \frac{r}{4} - \frac{r}{4} = \frac{1}{4}$$