

سوال نمبر 1

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$$a^r + ra + a^r = \epsilon$$

$$a^r = \epsilon$$

$$a^r \int_0^1 \epsilon + b \quad b^r = 1$$

$$\frac{a^r + a^r}{r+1} \int_0^1 \epsilon + a \quad \frac{\epsilon + a}{\epsilon + 1} \int_0^1 \epsilon + a^r = b$$

$$a^r \int_0^1 \epsilon + a \rightarrow \frac{1 + a}{r+1} \int_0^1 \epsilon + a^r$$

2

$$r a^r + a r + b \rightarrow (r+1) (a^r - \epsilon)$$

$$(r+1) a^r - a r - b = a^r - \epsilon$$

$$(r+1) a^r + a = \frac{b}{r+1} - \epsilon$$

$$(r+1) a^r - a = \frac{b}{r+1} - \epsilon$$

3

$$- \epsilon (r+1)^r = \epsilon a^r - a r - b$$

$$b = \epsilon$$

$$- \epsilon = a = \frac{b}{r+1}$$

4

$$(r+1)^r = a^r + r a + 1 \quad m = r$$

$$m^r = \epsilon (0) \rightarrow m^r = \epsilon - r (m)^r$$

$$[-r, r]$$

