

$m = n^a$
 $\log_{mn} m^a = b \Rightarrow \log_{na+1} n^{a+1} = b \Rightarrow \frac{a+1}{a+1} = b \Rightarrow b = 1$

افزایش

$b = \frac{a+1+1-1}{a+1} = \frac{a+1}{a+1} = 1 \Rightarrow [b] = 1$

عمل (الف)

	0	1
n	-	+
$\log \frac{n}{2}$	+	-

$x^2 - n - 1 > 0 \Rightarrow x > 1$
 $x^2 - n - 1 < 0 \Rightarrow x < 1$
 $x^2 - n - 1 = 0 \Rightarrow x = 1$

$\log_a a + \log_a a = 2 \Rightarrow \log_a a = 1 \Rightarrow a = 1$

$\log a = 0, 1 \Rightarrow \log a - \log a = 0, 1$
 $\log a = 0, 1 \Rightarrow \log a = 0, 1$

$\log V = 1, 1 \Rightarrow \log V = 1, 1$
 $\log \frac{V}{2} = \frac{1}{2} \Rightarrow \log V = 2$

$\left(\frac{1}{2}\right)^{m+1} = \left(\frac{1}{2}\right)^m \Rightarrow m = -m+1 \Rightarrow m = 0$

$\frac{1}{2} \log b = \frac{1}{2} (1+a) \Rightarrow \log b = 1+a \Rightarrow b = 2^{1+a}$

$\frac{1}{5} = \log 5 = \frac{5a}{b} \Rightarrow a = \frac{b}{5}$