1)
$$(1,2)$$
, $(3,10)$, $(5,1)$
 $y = \alpha x^{2} + bx + c$
 $\begin{cases} 2 = \alpha + b + c \\ 10 = 9\alpha + 3b + c \end{cases} = \begin{cases} C = 2 - \alpha - b \\ 10 = 9\alpha + 3b + c \end{cases}$, $1 = 25\alpha + 5b + c$
 $10 = 9\alpha + 3b + 2 - \alpha - b$
 $3\alpha + 2b = 8$
 $b = 4 - 4\alpha$
 $1 = 25\alpha + 5(4 - 4\alpha) + 2 - \alpha - (4 - 4\alpha)$
 $8\alpha = -1\%$
 $\alpha = -\frac{1\%}{8}$
 $b = 4 - 4(-\frac{1\%}{8}) = 4(1 + \frac{1\%}{8}) = 4 \cdot \frac{25}{8} = \frac{100}{8}$
 $c = 2 + \frac{1\%}{8} - \frac{100}{8} = \frac{33}{8} - \frac{100}{8} = -\frac{6\%}{8}$
 $y = -\frac{1\%}{8} x^{2} + \frac{100}{8} x - \frac{6\%}{8}$

2)
$$\alpha - 6000$$
, $6 - cycoù ocmainok$, $\rho - odenyin bere $\alpha_1 + \beta_1 = \beta_1$ $\beta_1 = 100$ kg $\alpha_1 = 0,99$ β_1 $\beta_2 = 0,01$ $\beta_2 = 0$ $\beta_2 = 0,02$ β_2 $\beta_2 = 0,02$ β_2 $\beta_2 = 0,02$ β_2 $\beta_2 = 0,02$ $\beta_2$$

P2=50 m

3)
$$d) 2^{\infty} = 256$$
 $x = 8$
 $b) 2^{\infty} = 300$ $x = log_2 300$
 $c) log_8 2^{8xc-4} = 4$
 $(8xc-4) log_2 = 2$
 $d) 3 log_9 (5xc-5) = 5$
 $3 log_3 (5xc-5) = 6$
 $log_3 3^{\frac{1}{2}} log_3 (5xc-5) = log_3 5$
 $log_3 (5xc-5) = log_3 5$

$$log_{3} 3^{\frac{1}{2}} log_{3} (5ne-5) = log_{3} 5$$

$$\frac{1}{2} log_{3} (5ne-5) = log_{3} 5$$

$$log_{3} (5 \cdot (ne-1)) = 2 log_{3} 5$$

$$log_{3} 5 + log_{3} (ne-1) = 2 log_{3} 5$$

$$log_{3} (ne-1) = log_{3} 5$$

$$ne-1 = 5$$

$$ne=6$$

$$2 log_{3} x + 1 = 9$$

$$ne=6$$

$$2 log_{3} x + 1 = 9$$

$$ne=6$$

$$ne=6$$

e)
$$x \log_3 x + 1 = g$$
 OD3: $\int_{2C} x > 0$
 $\log_3 x C \log_3 x + 1 = \log_3 g$
 $(\log_3 x + 1) \log_3 x c = 2$ Tyemb $\log_3 x c = 6$
 $(\xi + 1) \cdot \xi = 2$
 $\xi + \xi - 2 = 0$
To meopeure Buemer $\int_{\xi + 1}^{\xi + 1} \xi - 2 = 0$
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4) a)
$$\log_4 16 = 2$$
 b) $\log_3 \sqrt{27} = \frac{3}{2}$

c)
$$\log_5 \frac{1}{25} = -2$$
 d) $\log_{25} 5 = \frac{1}{2}$

i)
$$log_432 + log_{9,1}10 = log_{22}^{5} + log_{10} \cdot 10 = \frac{5}{2} - 1 = \frac{3}{2}$$