קובץ מצורף - הנחיות מר...

$$\log x = \log 4 + \log 9 - \log 12 \quad (1$$

$$\log x = \log\left(\frac{4 \cdot 9}{12}\right)$$

$$\boxed{x = 3}$$

$$\log_9 x = \frac{1}{2} + \log_9 2 \quad (14$$

$$\log_9 x - \log_9 2 = \frac{1}{2}$$

$$\log_9 \frac{x}{2} = \frac{1}{2}$$

$$9^{\frac{1}{2}} = \frac{x}{2}$$

$$3 = \frac{x}{2} \quad / \cdot 2$$

$3 = 2$

$x = 6$

$$\log_4 40 - \log_4 5 \quad (20$$

$\log_4 8 = x$

$2^{2x} = 2^3$

$2x = 3$

$x = 1.5$

$$\log_3 x = \frac{1}{2}\log_3 100 + \frac{3}{4}\log_3 16 \quad (38$$

$\log_3 x = \log_3 100^{\frac{1}{2}} + \log_3 16^{\frac{3}{4}}$

$\log x = \log 10 + \log_3 8$

$\log_3 x = \log_3 10 + \log_3 8$

$\log 40 + 2\log 10 - \frac{2}{3}\log 8$ (45

$x = 80$

$2\log 2 + 2\log 5$ (39

$\log 2^2 + \log 5^2$

$\log 100 = x$

$10^x = 100$

$x = 2$

$\log 40 + 2\log 10 - \frac{2}{3}\log 8$ (45

$\log 40 + \log 100 - \log 4$

$\log 1000 = x$

$10^x = 1000$

$x = 4$

$$\frac{\log 8}{\log 2} = x$$

$\log 8 \div \log 2$

$\log_2 8 = x$

$2^x = 8$

$2^x = 2^3$

$x = 3$

$$\frac{\log 32}{\log 4}$$ (55

$$\text{Log}_4 32 = x$$

$$4^x = 32$$

$$2^{2x} = 2^5$$

$$x = 2.5$$

$$\frac{\log 4 - 2\log 6}{\log 3}$$ (58

$$\text{Log}_3 4 - \text{Log}_3 6^2$$

$$\text{Log}_3\left(\frac{1}{9}\right) = x$$

$3^x = 3^{-2}$

$x = -2$

$$\frac{2\log 2 + 2\log 3}{\log 30 - \log 5}$$ (59

$\log_6 4 + \log_6 9 =$

$6^x = 36$

$6^x = 6^2$

$x = 2$