

$$3) \log_5(3x) = \frac{1}{2}$$

$$\frac{5^{1/2}}{3} = \frac{3x}{3}$$

$$x = \frac{5^{1/2}}{3}$$

.7

$$5) \log_9(3x+4) = \frac{1}{2}$$

$$9^{1/2} = 3x+4$$

$$3 = 3x+4$$

$$\begin{array}{r} -4 \\ -4 \end{array}$$

$$-\frac{1}{3} = \frac{3x}{3}$$

$-\frac{1}{3}$

$$8) \ln x - 2 \ln 3 = 4$$

$$\ln x - \ln 3^2 = 4$$

$$\ln x = \ln 9 = 4$$

$$\ln\left(\frac{x}{9}\right) = 4$$

$e$  2<sup>nd</sup> ÷

$$9 \cdot e^4 = \frac{x}{9} \cdot 9$$

$$x = 9 \cdot e^4$$

491.4