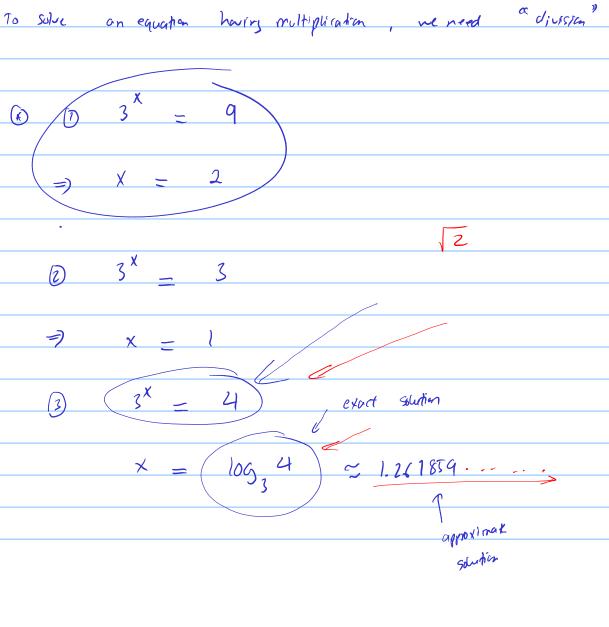
Logarithmic Functions = x = 6 - 3 = 3In order to solve on aquation howing addita we need Sustraction". (£)



X + 123 = 764

9 Solve:
$$2^{\times} = 7$$
 $\Rightarrow \times = \log_2 7$

9 $\times = \log_6 3$

9 $\times = \log_6 3$

10 Solve: $3 \cdot (2^{\times}) = 1$

11 $\Rightarrow 2^{\times} = \frac{1}{3}$

12 $\times = \log_2 (113)$

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14 \times

$$=$$
 $\times = log_{2025}$ 2024

$$(2)$$
 $7^{\times} = 10$

$$3x + 1$$

$$3 \qquad \qquad = 10$$

$$=$$
 $3x + 1 = 109_{7} = 10$

$$= 3 \times = \log_{\frac{1}{2}} 10 - 1$$

$$=$$
 $\times = \frac{109_{7}10 - 1}{3}$

Divide Soth Sides

$$(3) = 5$$

$$=$$
) $3^{(-)} = 5/2$

$$=)$$
 $1-x = log_3(5/2)$

$$=) \qquad 1 = \log_3(5/2) + X$$

$$=) 1 - \log_3(5/2) = x$$

$$=$$
 $X = 1 - 109_3(5/2)$

$$3 \cdot \log_b(a^{\times}) = \times \cdot \log_b a$$

nota:

we wrik In x in stead of log x

$$ln = log_e$$

This means when the base is to me don't wrik the

base.

Assignment: 8

$$\begin{array}{ccc}
2x + 1 & & \\
4 & 6 & = 12
\end{array}$$