

- Change to log form

$$1d) 3^x = 4-t \quad ; \quad \boxed{\log_3(4-t) = x}$$

$$1e) 5^{7t} = \frac{a+b}{a} \quad ; \quad \boxed{\log_5\left(\frac{a+b}{a}\right) = 7t}$$

$$1f) (0.7)^t = 5.3 \quad ; \quad \boxed{\log_{0.7}(5.3) = t}$$

- Change to exponential form

$$3a) \log_2 32 = 5 \quad ; \quad \boxed{2^5 = 32}$$

$$3c) \log_t r = p \quad ; \quad \boxed{t^p = r}$$

$$3e) \log_2 m = 3x+4 \quad ; \quad \boxed{2^{(3x+4)} = m}$$

- Solve for t using logarithms with base a

$$5) 2a^{t/3} = 5 \quad ; \quad a^{t/3} = 5/2 \quad ; \quad \log_a(5/2) = t/3$$

$$\boxed{3 \log_a(5/2) = t}$$

$$\nabla A = Ba^{ct} + D \quad ; \quad Ba^{ct} = A - D$$

$$a^{ct} = \frac{A-D}{B}$$

$$\log_a\left(\frac{A-D}{B}\right) = Ct$$

$$t = \frac{1}{C} \log_a\left(\frac{A-D}{B}\right)$$