

2374

$$a) 2^t = 10^{t \lg 2} = e^{\ln 2 t}$$

$$2^t = 10^{t \lg 2} = e^{\ln 2 t}$$

$$b) 5^{3x} = 10^{x \lg 5} = e^{x \ln 5}$$

$$c) 2^{-x} = 10^{-x \lg 2} = e^{-x \ln 2}$$

$$d) 3^{-t} = 10^{-t \lg 3} = e^{-t \ln 3}$$

$$e) 4^{2t} = 10^{2t \lg 4} = e^{2t \ln 4}$$

$$f) 2^{-x/12} = 10^{-\frac{x}{12} \lg 4}$$

$$2^{-x/12} = 10^{-\frac{x \lg 4}{12}} = e^{-\frac{x \ln 2}{12}}$$