

$$(4) 4/2^x = 64^x$$

$$2^2/2^x = 2^{8x}$$

$$2^{2-x} = 2^{8x}$$

$$2-x=8x$$

$$2= 8x+x$$

$$2= 9x$$

$$9x = 2$$

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

$$(5) 10^x = \frac{1}{0.001}$$

$$10^x = 10^{-3}$$

$$x = -3$$

$$(6) (-0.125)^{2/3} = \left(-\frac{125}{1000}\right)^{2/3}$$

$$\left(\sqrt[3]{-\frac{125}{1000}}\right)^2$$

$$\left(-\frac{5}{10}\right)^2 = \left(-\frac{1}{2}\right)^2$$

$$= -\frac{1}{2} \times -\frac{1}{2}$$

$$= \frac{1}{4}$$

$$(7) (0.064)^{2/3}$$

$$\left(\frac{64}{1000}\right)^{2/3}$$

$$\left(\sqrt[3]{\frac{64}{1000}}\right)^2$$

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