

1. Знайдіть значення x :

$$1) \left(\frac{1}{3}\right)^{-x} = \frac{1}{81}$$

$$x = \underline{\hspace{2cm}}$$

$$2) (-x)^6 = \frac{4096}{729}$$

$$x = \underline{\hspace{2cm}}$$

$$3) \frac{512}{343} = x^3$$

$$x = \underline{\hspace{2cm}}$$

$$4) x^5 = -\frac{3125}{1024}$$

$$x = \underline{\hspace{2cm}}$$

$$5) \frac{128}{2187} = \left(\frac{2}{3}\right)^x$$

$$x = \underline{\hspace{2cm}}$$

$$6) \left(-\frac{1}{6}\right)^x = \frac{1}{36}$$

$$x = \underline{\hspace{2cm}}$$

$$7) x^3 = -\frac{216}{125}$$

$$x = \underline{\hspace{2cm}}$$

$$8) \frac{1}{81} = x^2$$

$$x = \underline{\hspace{2cm}}$$

$$9) \frac{16}{625} = \left(-\frac{2}{5}\right)^x$$

$$x = \underline{\hspace{2cm}}$$

$$10) x^4 = \frac{81}{2401}$$

$$x = \underline{\hspace{2cm}}$$

$$11) (-x)^3 = -\frac{1}{64}$$

$$x = \underline{\hspace{2cm}}$$

$$12) \frac{343}{8} = \left(\frac{7}{2}\right)^{-x}$$

$$x = \underline{\hspace{2cm}}$$

$$1) x^3 = \frac{64}{125}$$

$$x = \underline{\hspace{2cm}}$$

$$2) -\frac{1}{512} = x^9$$

$$x = \underline{\hspace{2cm}}$$

$$3) \frac{729}{8} = \left(\frac{9}{2}\right)^{-x}$$

$$x = \underline{\hspace{2cm}}$$

$$4) (-x)^4 = \frac{1296}{2401}$$

$$x = \underline{\hspace{2cm}}$$

$$5) \frac{6561}{256} = x^8$$

$$x = \underline{\hspace{2cm}}$$

$$6) \left(\frac{1}{4}\right)^{-x} = \frac{1}{4096}$$

$$x = \underline{\hspace{2cm}}$$