

2.3

$$1) 5^{-3} = \frac{1}{5^3} = \frac{1}{125}$$

$$2) 2^{-4} = \frac{1}{2^4} = \frac{1}{16}$$

$$3) 3^{-2} = \frac{1}{3^2} = \frac{1}{9}$$

$$4) 4^{-5} = \frac{1}{4^5} = \frac{1}{1024}$$

$$5) \left(\frac{2}{3}\right)^{-3} = \frac{1}{\left(\frac{2}{3}\right)^3} = \frac{1}{\frac{2^3}{3^3}} = \frac{1}{\frac{8}{27}} = \frac{27}{8}$$

$$6) \left(-\frac{4}{5}\right)^{-2} = \frac{1}{\left(-\frac{4}{5}\right)^2} = \frac{1}{\frac{16}{25}} = \frac{25}{16}$$

$$7) \left(\frac{3}{4}\right)^{-1} = \frac{1}{\left(\frac{3}{4}\right)^1} = \frac{1}{\frac{3}{4}} = \frac{4}{3}$$

$$8) 0,1^{-6} = \left(\frac{1}{10}\right)^{-6} = (10^{-1})^{-6} = 10^{(-1) \cdot (-6)} = 10^6 = 1\,000\,000$$