

**2.6**

$$1) (3^3)^2 = 3^{3 \cdot 2} = 3^6 = 729$$

$$2) (2^{-5})^{-2} = 2^{(-5) \cdot (-2)} = 2^{10} = 1024$$

$$3) (2^{-3})^3 = 2^{(-3) \cdot 3} = 2^{-9} = \frac{1}{2^9} = \frac{1}{512}$$

$$4) (8^{-1})^{-1} = 8^{(-1) \cdot (-1)} = 8^1 = 8$$

$$5) (7^{12})^0 = 7^{12 \cdot 0} = 7^0 = 1$$

$$6) 0,1^{-5} = \left(\frac{1}{10}\right)^{-5} = (10^{-1})^{-5} = 10^{(-1) \cdot (-5)} = 10^5 = 100\,000$$