

**2.5**

$$1) \frac{5^3}{5^6} = 5^{3-6} = 5^{-3} = \frac{1}{5^3} = \frac{1}{125}$$

$$2) \frac{4^{-5}}{4^{-7}} = 4^{-5-(-7)} = 4^2 = 16$$

$$3) \frac{8^{-3}}{8^{-7}} = 8^{-3-(-7)} = 8^4 = 4096$$

$$4) \frac{7^5}{7^7} = 7^{5-7} = 7^{-2} = \frac{1}{7^2} = \frac{1}{49}$$

$$5) \frac{(-3)^3}{(-3)^2} = (-3)^{3-2} = (-3)^1 = -3$$

$$6) \frac{2^6}{2^2} = 2^{6-2} = 2^4 = 16$$