

- (1) a) $\sqrt[2]{4^3}$ b) $\sqrt[2]{5}$ c) $\sqrt[5]{3^3}$ d) $\sqrt[7]{4^5}$
- (2) a) $\sqrt[2]{4}$ b) $\sqrt[5]{5^3}$ c) $\sqrt[5]{3^4}$ d) $\sqrt[25]{2^3}$
- (3) a) $\sqrt[3]{4^2}$ b) $\sqrt[3]{3}$ c) $\sqrt[9]{8^4}$ d) $\sqrt[45]{5^4}$
- (4) a) $4^{\frac{3}{2}}$ b) $4^{\frac{2}{3}}$ c) $4^{\frac{3}{4}}$ d) $4^{\frac{4}{5}}$
- (5) a) $4^{0.15}$ b) $4^{1.32}$ c) $4^{0.75}$ d) $4^{0.17}$
- (6) $3^0 = 1$
 $3^{0.631..} = 2$
 $3^1 = 3$
 $3^{1.262..} = 4$
 $3^{1.465..} = 5$