## Ex 1.15

a) $7^{\frac{3}{4}} = \sqrt[4]{7^3}$

b) $3^{\frac{2}{5}} = \sqrt[5]{3^2}$

c) $64^{\frac{3}{2}} = 2^9$ car $64^{\frac{3}{2}} = \left(2^6\right)^{\frac{3}{2}} = 2^{6 \cdot \frac{3}{2}} = 2^9$

d) $-11^{0,25} = -\sqrt[4]{11}$ car $-11^{0,25} = -11^{\frac{1}{4}}$

e) $36^{-\frac{1}{2}} = \frac{1}{6}$ car $36^{-\frac{1}{2}} = \frac{1}{36^{1/2}} = \frac{1}{\sqrt{36}}$

f) $8^{-\frac{7}{5}} = \frac{1}{\sqrt[5]{2^{21}}}$ car $8^{-\frac{7}{5}} = \left(2^3\right)^{-\frac{7}{5}} = 2^{-\frac{21}{5}} = \frac{1}{2^{\frac{21}{5}}}$

g) $27^{-\frac{1}{3}} = \frac{1}{3}$ car $27^{-\frac{1}{3}} = \frac{1}{27^{1/3}} = \frac{1}{\sqrt[3]{27}}$

h) $(-3)^{0,5}$ = impossible car $(-3)^{1/2} = \sqrt{-3}$ ↯