

## Roots of Real #'s

Ex: a)  $\sqrt{4} = 2$

d)  $\sqrt{-9} = \phi$

b)  $\sqrt{121} = 11$

e)  $\sqrt{x^4} = x^2$

c)  $-\sqrt{64} = -8$

f)  $\sqrt[4]{x^8 z^2} = y^4 x^3 z$

Ex: a)  $\sqrt[3]{8} = 2$

d)  $\sqrt[3]{x^9 y^6} = x^3 y^2$

b)  $\sqrt[3]{-27} = -3$

c)  $\sqrt[3]{x^3} = x$

Ex: a)  $\sqrt[4]{16} = 2$

c)  $\sqrt[4]{x^4 y^{12} z^{20}} = x y^3 z^5$

b)  $\sqrt[4]{-81} = \phi$