## Exponential Equations

Review

$$
\text { if } \mathrm{x}^{2}=b \text {, then } \mathrm{x}= \pm \sqrt{b}
$$

You'll notice the variables in the equations we have been solving for are not in the exponent.

What would happen if the variable was in the exponent, a problem like

$$
3^{x}=81
$$

That's called an exponential equation

