



Quadratic vs. Exponential Relations

Video Notes

[Video Link](#)

Exponential vs. Quadratic Relations

Background Information:

- Quadratic Relations
- Zero Exponents
- Negative Exponents

$$2^3 =$$

Constant
(any # can be the base)

	Quadratic	Exponential																																
Equation	$y = x^2$	$y = a^x$ Ex: $y = 2^x$																																
Chart	<table border="1"> <tr> <td>x</td> <td>-3</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>y</td> <td>9</td> <td>4</td> <td>1</td> <td>0</td> <td>1</td> <td>4</td> <td>9</td> </tr> </table>	x	-3	-2	-1	0	1	2	3	y	9	4	1	0	1	4	9	<table border="1"> <tr> <td>x</td> <td>-3</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>y</td> <td>$\frac{1}{8}$</td> <td>$\frac{1}{4}$</td> <td>$\frac{1}{2}$</td> <td>1</td> <td>2</td> <td>4</td> <td>8</td> </tr> </table>	x	-3	-2	-1	0	1	2	3	y	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	1	2	4	8
x	-3	-2	-1	0	1	2	3																											
y	9	4	1	0	1	4	9																											
x	-3	-2	-1	0	1	2	3																											
y	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	1	2	4	8																											
Graph																																		