

Linear Equation:  $y = mx + b$   
 Exponential Equation:  $y = ab^x$   
 Quadratic Equation:  $y = ax^2 + bx + c$

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- Linear: • Subtract by same # each time
- Exponential: • Divide by same # each time
- Quadratic: • Subtract once and nothing matches  
 • Subtract 2nd time by same #

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$(-4, \frac{1}{32}), (-2, \frac{1}{8}), (0, \frac{1}{2}), (2, 2), (4, 8)$

X	-4	-2	0	2	4
Y	$\frac{1}{32}$	$\frac{1}{8}$	$\frac{1}{2}$	2	8

$\div 4 \quad \div 4 \quad \div 4 \quad \div 4$

Exponential

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$(-4, 1), (-2, 2), (0, 3), (2, 4), (4, 5)$

X	-4	-2	0	2	4
Y	1	2	3	4	5

$\div 1 \quad \div 1 \quad \div 1 \quad \div 1$

Linear

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$(-4, 5), (-2, 2), (0, 1), (2, 2), (4, 5)$

X	-4	-2	0	2	4
Y	5	2	1	2	5

$-3 \quad -1 \quad 1 \quad 3$   
 $2 \quad 2 \quad 2$

Quadratic

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x	-2	-1	0	1
y	0.08	0.4	2	10

$\div 5 \quad \div 5 \quad \div 5$

Exponential

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x	-2	-1	0	1	2
y	2	0.5	0	0.5	2

$\underbrace{\quad\quad\quad}$   
 $\underbrace{\quad\quad\quad}$   
 $\underbrace{\quad\quad\quad}$   
 -1.5 -1.5 1.5 1.5  
 1 1 1

Quadratic

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3.

x	-3	-2	-1	0	1
y	-7	-5	-3	-1	1

$\underbrace{\quad\quad\quad}$   
 $\underbrace{\quad\quad\quad}$   
 2 2 2 2

Linear

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