

= LINEAR

= EXPONENTIAL

= QUADRATIC

= NEITHER



KEY

Linear, Exponential, Quadratic or Neither

Determine a color for each type of function. Color the box the appropriate color based on what type of function it is.

$y = 7x + 4$	$4x - y = 13$	$y = x^3 + 2x^2 - 12$	$y = x^2 - 1$	$(x - 2)(x - 3) = 12$																																																		
$3x - \frac{4}{3}y = 15$	$y = x(x + 9)$	$y = -3(x - 2)^2 + 8$	$y = 6x^5$	$y = \frac{13}{x}$																																																		
$-x^2 - 2x + 3 = 0$	$x^4 - 10 = 0$	$xy = 17y - 17x$	$f(x) = 2^{x-3}$	$y = \frac{3x}{2}$																																																		
<table border="1"> <tr><td>x</td><td>3</td><td>6</td><td>9</td><td>12</td></tr> <tr><td>y</td><td>12</td><td>10</td><td>8</td><td>6</td></tr> </table>	x	3	6	9	12	y	12	10	8	6	<table border="1"> <tr><td>x</td><td>5</td><td>10</td><td>15</td><td>20</td></tr> <tr><td>y</td><td>13</td><td>28</td><td>43</td><td>58</td></tr> </table>	x	5	10	15	20	y	13	28	43	58	<table border="1"> <tr><td>x</td><td>2</td><td>4</td><td>6</td><td>8</td></tr> <tr><td>y</td><td>10</td><td>12</td><td>16</td><td>24</td></tr> </table>	x	2	4	6	8	y	10	12	16	24	<table border="1"> <tr><td>x</td><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>y</td><td>-2</td><td>-18</td><td>-50</td><td>-98</td></tr> </table>	x	1	3	5	7	y	-2	-18	-50	-98	<table border="1"> <tr><td>x</td><td>1</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>y</td><td>-2</td><td>-18</td><td>-50</td><td>-98</td></tr> </table>	x	1	3	5	7	y	-2	-18	-50	-98
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$y = 14$	$9 = xy$	$\frac{x}{y} = 18$	$y = \frac{3}{4}(x + 12) - 2$	$y - 1 = -2(x - 5)$																																																		
A golf ball was hit at the driving range.	The carnival charged an entry fee to get in the park and also a fee per ride ticket.	The population of beetles doubled every week.	Mr. Green weighed decided he wanted to lose four pounds a week.	A basketball free throw was shot to win the game.																																																		
$y = (x - 3)(x + 6)$	$x^2 = 16$	The stock market loses a third of its value every ten years.	The flight path of an Angry Bird.	$\{(1, 2), (1, 3), (1, 4), (1, 5), (1, 6)\}$																																																		

*about math functions