

Visual Guided Practice

Name: _____

Learning Target: I will determine if a function is linear or non-linear.

We Do Together



4. Reflect: What questions do you have about determining if a function is linear or non-linear?

You Do Together



x	0	1	2	3	4
g(x)	6	4	2	0	-4

- **5a.** Does the function g(x) have a constant rate of change? Yes or No
- **5b.** What type of function is g(x)?

Linear or Non-linear

5c. Find the missing values of k(x) that will make the function linear?

x	-1	0	1	2	4
h(x)	14		4	-1	

For problems 6 and 7, you may use a graphing tool to support your thinking.

Form A

6. Circle each linear function.

$f(x) = -x^2 + 1$	g(x) = x + 4
$h(x) = 2^x - 6$	j(x) = -2
$k(x) = -x^1 + 3$	$l(x) = 2x^0 + 5$
m(x) = 9x	$n(x) = x^5$

7. Circle each non-linear function.

$p(x) = 5^x + 1$	q(x) = -x
r(x) = 4x - 2	$t(x) = x^2 - 1$
$u(x) = 9^x + 1$	v(x) = 5x
$w(x) = 6x^1$	z(x) = -7



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f(x)	x 0 1 2 3 4	For problems 6 and 7, you may use a graphing tool to support your thinking
9 8 (+1.8) 7	g(x) 7 4 1 -2 -5	6. Circle each linear function.
6 4 (0,3) 3 	5a. Does the function $g(x)$ have a constant rate of change? Yes or No	$f(x) = -x^{1} + 3 \qquad g(x) = 3x^{0} + h(x) = 3x \qquad j(x) = x^{3}$ $k(x) = -x^{2} + 3 \qquad l(x) = x + 3$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5b. What type of function is $g(x)$? Linear or Non-linear	$m(x) = 2^x - 3$ $n(x) = -3$ 7. Circle each non-linear function.
 4a. Do the values of x and f(x) always change at the same rate? Yes or No 	5c. Find the missing values of $k(x)$ that will make the function linear?	$p(x) = 7x q(x) = 6^{x} + 1$ $r(x) = 9x^{1} t(x) = -2$ $u(x) = -x v(x) = 4^{x} + 1$ $r(x) = 2x - 1 -x^{2} - 1$
4b. Is the function f(x) linear or non-linear?Linear or Non-linear	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$w(x) - 2x - 1 \qquad z(x) = x^* - 1$

iy use a thinking.

on.

$f(x) = -x^1 + 3$	$g(x) = 3x^0 + 3$
h(x) = 3x	$\mathbf{j}(x) = x^3$
$k(x) = -x^2 + 3$	l(x) = x + 3
$m(x) = 2^x - 3$	n(x) = -3

nction.

Form B



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For problems 6 and 7, you may use a graphing tool to support your thinking.

6. Circle each linear function.

$f(x) = -x^2 + 5$	g(x) = x + 5
$h(x) = 2^x - 1$	j(x) = -7
$k(x) = -x^1 + 3$	$l(x) = 2x^0 + 8$
m(x) = 4x	$n(x) = x^2$

7. Circle each non-linear function.

$p(x) = x^3 - 1$	q(x) = 6x - 2
$r(x) = 6^x + 1$	t(x) = 2x
u(x) = -2	$v(x) = 6x^1$
w(x) = -x	$z(x) = 3^{x} + 1$

Form C