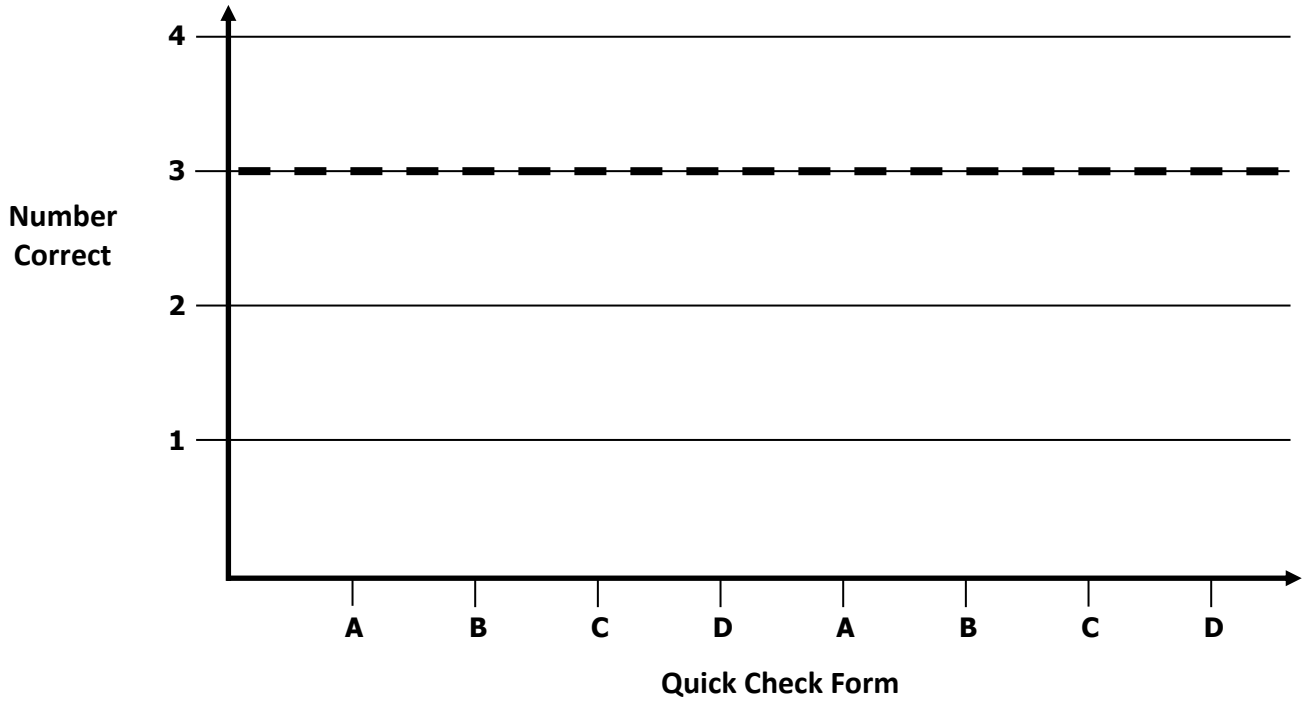
Algebra 2 Growth Chart

Readiness Standard 4 - F.LE.1

Name_____

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

Goal: 3 out of 4 correct



Intervention	Date	Score

Quick Check – Form A

Readiness Standard 4 – F.LE.1

Name_____ Date_____

Learning Target: I will determine if a function is linear or non-linear. (Work time: 4 minutes)

1. Given the function provided in the table, circle the answer choice that makes the statement true.

x	0	1	2	3	5
$f(x)$	1	3	5	7	9

"The function represented in the table is _____."

- linear because the values of x and $f(x)$ always change at a constant rate
- linear because the values of x and $f(x)$ do not always change at a constant rate
- non-linear because the values of x and $f(x)$ always change at a constant rate
- non-linear because the values of x and $f(x)$ do not always change at a constant rate

2. Given the function provided in the table, circle the answer choice that makes the statement true.

x	-1	0	1	2	4
$g(x)$	6	3	0	-3	-9

"The function represented in the table is _____."

- linear because the values of x and $g(x)$ always change at a constant rate
- linear because the values of x and $g(x)$ do not always change at a constant rate
- non-linear because the values of x and $g(x)$ always change at a constant rate
- non-linear because the values of x and $g(x)$ do not always change at a constant rate

3. Circle all of the linear functions.

$f(x) = x^3 + 4$ $g(x) = 3x + 4$ $h(x) = 3^x + 4$ $k(x) = x$

4. Circle all of the non-linear functions.

$p(x) = x^2 + 7$ $q(x) = 2x + 7$ $r(x) = 2^x + 7$ $t(x) = x$

Quick Check – Form B

Readiness Standard 4 – F.LE.1

Name_____ Date_____

Learning Target: I will determine if a function is linear or non-linear. (Work time: 4 minutes)

1. Given the function of $f(x)$ provided in the table, circle the answer choice that makes the statement true.

x	0	1	2	3	5
$f(x)$	8	6	4	2	0

"The function represented in the table is _____."

- linear because the values of x and $f(x)$ do not always change at a constant rate
- linear because the values of x and $f(x)$ always change at a constant rate
- non-linear because the values of x and $f(x)$ do not always change at a constant rate
- non-linear because the values of x and $f(x)$ always change at a constant rate

2. Given the function of $f(x)$ provided in the table, circle the answer choice that makes the statement true.

x	-1	0	1	2	4
$f(x)$	2	4	6	8	10

"The function represented in the table is _____."

- non-linear because the values of x and $g(x)$ do not always change at a constant rate
- non-linear because the values of x and $g(x)$ always change at a constant rate
- linear because the values of x and $g(x)$ do not always change at a constant rate
- linear because the values of x and $g(x)$ always change at a constant rate

3. Circle all of the linear functions.

$f(x) = 4x + 5$ $g(x) = x^4 + 5$ $h(x) = x$ $k(x) = 4^x + 5$

4. Circle all of the non-linear functions.

$p(x) = x^2 + 3$ $q(x) = 2x + 3$ $r(x) = 2^x + 3$ $t(x) = x$

Quick Check – Form C

Readiness Standard 4 – F.LE.1

Name_____ Date_____

Learning Target: I will determine if a function is linear or non-linear. (Work time: 4 minutes)

1. Given the function of $f(x)$ provided in the table, circle the answer choice that makes the statement true.

x	0	1	2	3	5
$f(x)$	-4	0	4	8	16

"The function represented in the table is _____."

- linear because the values of x and $f(x)$ do not always change at a constant rate
- linear because the values of x and $f(x)$ always change at a constant rate
- non-linear because the values of x and $f(x)$ always change at a constant rate
- non-linear because the values of x and $f(x)$ do not always change at a constant rate

2. Given the function of $f(x)$ provided in the table, circle the answer choice that makes the statement true.

x	-2	-1	0	1	4
$f(x)$	-4	0	4	8	20

"The function represented in the table is _____."

- non-linear because the values of x and $g(x)$ do not always change at a constant rate
- non-linear because the values of x and $g(x)$ always change at a constant rate
- linear because the values of x and $g(x)$ do not always change at a constant rate
- linear because the values of x and $g(x)$ always change at a constant rate

3. Circle all of the linear functions.

$f(x) = x^3 + 4$ $g(x) = 3x + 4$ $h(x) = x$ $k(x) = 3^x + 4$

4. Circle all of the non-linear functions.

$p(x) = 2x + 7$ $q(x) = x$ $r(x) = x^2 + 7$ $t(x) = 2^x + 7$

Quick Check – Form D

Readiness Standard 4 – F.LE.1

Name_____ Date_____

Learning Target: I will determine if a function is linear or non-linear. (Work time: 4 minutes)

1. Given the function of $f(x)$ provided in the table, circle the answer choice that makes the statement true.

x	-1	0	1	2	4
$f(x)$	-5	-3	-1	1	3

"The function represented in the table is _____."

- non-linear because the values of x and $f(x)$ always change at a constant rate
- non-linear because the values of x and $f(x)$ do not always change at a constant rate
- linear because the values of x and $f(x)$ always change at a constant rate
- linear because the values of x and $f(x)$ do not always change at a constant rate

2. Given the function of $f(x)$ provided in the table, circle the answer choice that makes the statement true.

x	0	1	2	3	5
$f(x)$	5	3	1	-1	-5

"The function represented in the table is _____."

- non-linear because the values of x and $g(x)$ always change at a constant rate
- non-linear because the values of x and $g(x)$ do not always change at a constant rate
- linear because the values of x and $g(x)$ always change at a constant rate
- linear because the values of x and $g(x)$ do not always change at a constant rate

3. Circle all of the linear functions.

$f(x) = 4^x + 5$ $g(x) = 4x$ $h(x) = x^4 + 5$ $k(x) = x + 4$

4. Circle all of the non-linear functions.

$p(x) = x^2 + 6$ $q(x) = 2x + 6$ $r(x) = x + 6$ $t(x) = 2^x$