Visual Guided Practice

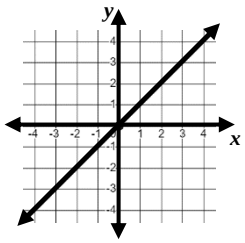
Name: _____

Learning Target: I will identify the graph of linear and non-linear functions. **Form A**

We Do Together

1. Use the graph to find the y-intercept, direction, and slope of each linear function.

$f(x) = x$

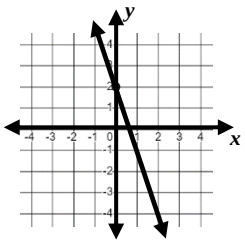


y-intercept = 0

Increasing *or* Decreasing *or* Neither

Slope = 1

$g(x) = -3x + 2$

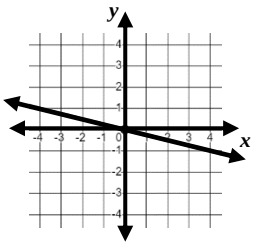


y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$h(x) = -\frac{1}{4}x$

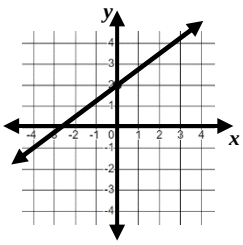


y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$j(x) = \frac{3}{4}x + 2$



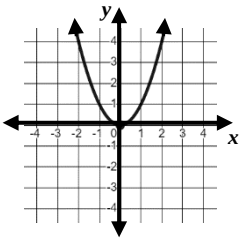
y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

2. Use the graph to find the key features of each function.

$k(x) = x^2$



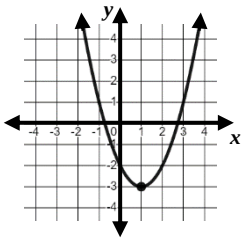
Vertex = (0 , 0)

Opens up *or* Opens down

Leading Coefficient = 1

Wider *or* Narrower *or* No Change

$p(x) = (x-1)^2 - 3$



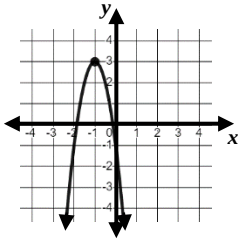
Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$q(x) = -4(x+1)^2 + 3$



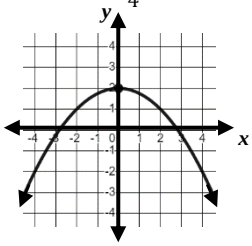
Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$t(x) = -\frac{1}{4}x^2 + 2$



Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

3. Reflect: What do you notice about key features of each graph and its equation?

You Do Together: Use what you noticed in problems 1 and 2 to identify key features of each function.

4. $f(x) = -2x + 3$

y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$g(x) = \frac{2}{3}x + 1$

y -intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$j(x) = -3(x+1)^2 + 4$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$k(x) = -\frac{1}{3}x^2 + 3$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

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Visual Guided Practice

Name: _____

Learning Target: I will identify the graph of linear and non-linear functions.

Form A (Continued)

You Do Together: Identify each key feature and sketch each function.

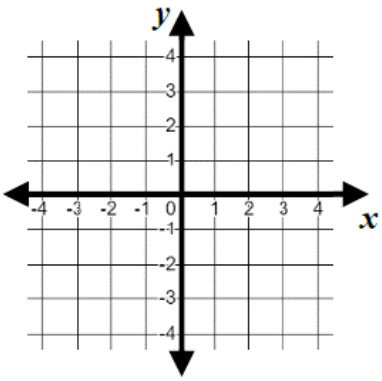
5. Linear Functions:

$p(x) = -2x - 3$

***y*-intercept =** ☐

Increasing *or* Decreasing *or* Neither

Slope = ☐

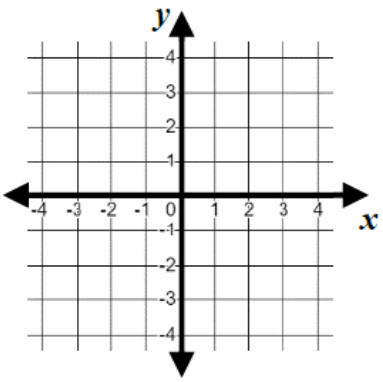


$q(x) = \frac{2}{3}x - 1$

***y*-intercept =** ☐

Increasing *or* Decreasing *or* Neither

Slope = ☐



6. Non-Linear Functions:

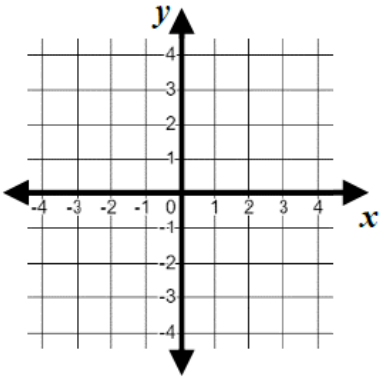
$r(x) = -4(x + 1)^2 - 3$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ☐

Wider *or* Narrower *or* No Change



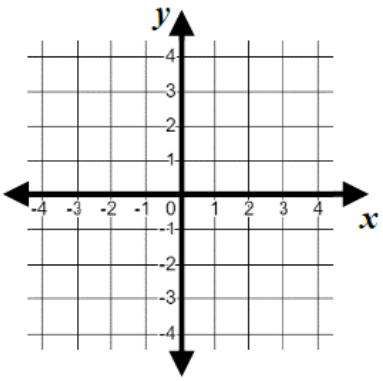
$t(x) = \frac{2}{3}x^2 + 4$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ☐

Wider *or* Narrower *or* No Change



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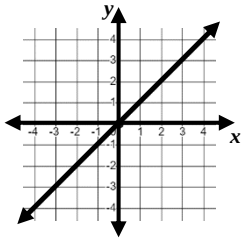
Visual Guided Practice Name: _____

Learning Target: I will identify the graph of linear and non-linear functions. **Form B**

We Do Together

1. Use the graph to find the y-intercept, direction, and slope of each linear function.

$f(x) = x$

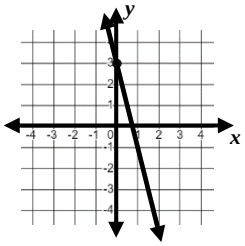


***y*-intercept = 0**

Increasing *or* Decreasing *or* Neither

Slope = 1

$g(x) = -4x + 3$

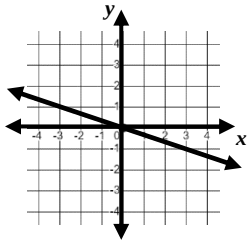


***y*-intercept =** ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$h(x) = -\frac{1}{3}x$

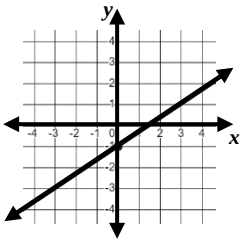


***y*-intercept =** ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$j(x) = \frac{2}{3}x - 1$



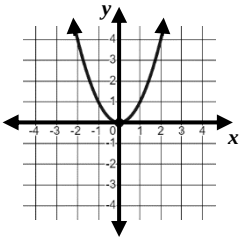
***y*-intercept =** ____

Increasing *or* Decreasing *or* Neither

Slope = ____

2. Use the graph to find the key features of each function.

$k(x) = x^2$



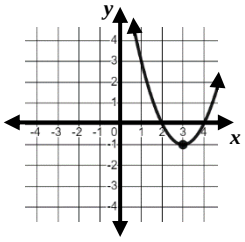
Vertex = (0 , 0)

Opens up *or* Opens down

Leading Coefficient = 1

Wider *or* Narrower *or* No Change

$p(x) = (x - 3)^2 - 1$



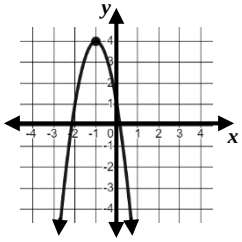
Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$q(x) = -3(x + 1)^2 + 4$



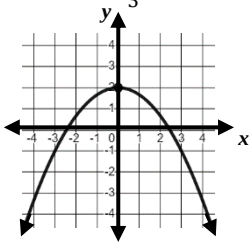
Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$t(x) = -\frac{1}{3}x^2 + 2$



Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

3. Reflect: What do you notice about key features of each graph and its equation?

You Do Together: Use what you noticed in problems 1 and 2 to identify key features of each function.

4. $f(x) = 3x - 4$

***y*-intercept =** ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$g(x) = \frac{3}{4}x + 2$

***y* -intercept =** ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$j(x) = 3(x - 1)^2 + 2$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$k(x) = -\frac{1}{5}x^2 - 3$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

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Visual Guided Practice

Name: _____

Learning Target: I will identify the graph of linear and non-linear functions.

Form B (Continued)

You Do Together: Identify each key feature and sketch each function.

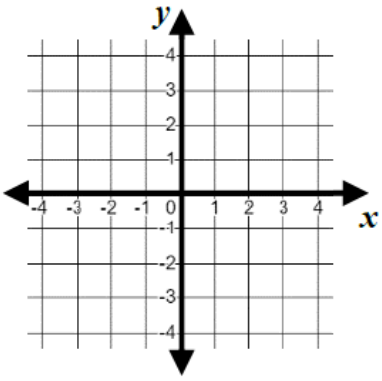
5. Linear Functions:

$p(x) = -4x - 3$

y-intercept = ☐

Increasing *or* Decreasing *or* Neither

Slope = ☐

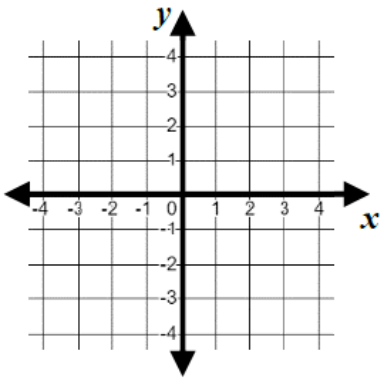


$q(x) = \frac{4}{3}x - 2$

y-intercept = ☐

Increasing *or* Decreasing *or* Neither

Slope = ☐



6. Non-Linear Functions:

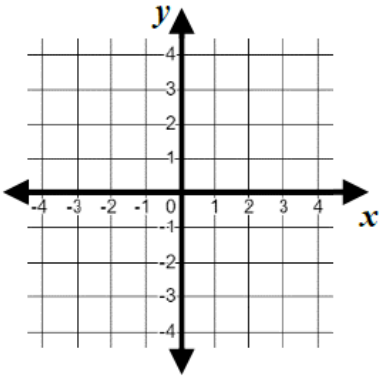
$r(x) = -3(x-1)^2 + 2$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ☐

Wider *or* Narrower *or* No Change



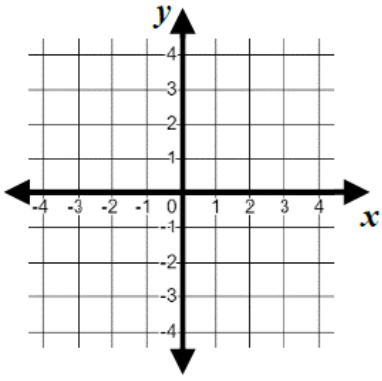
$t(x) = \frac{1}{5}x^2 - 3$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ☐

Wider *or* Narrower *or* No Change



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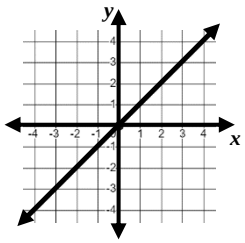
Visual Guided Practice Name: _____

Learning Target: I will identify the graph of linear and non-linear functions. **Form C**

We Do Together

1. Use the graph to find the y-intercept, direction, and slope of each linear function.

$f(x) = x$

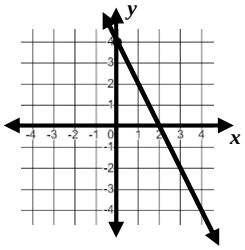


y-intercept = 0

Increasing *or* Decreasing *or* Neither

Slope = 1

$g(x) = -2x + 4$

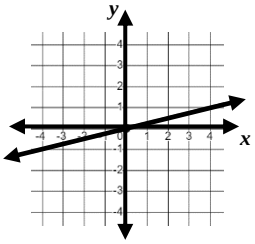


y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$h(x) = \frac{1}{4}x$

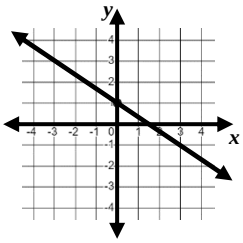


y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$j(x) = -\frac{2}{3}x + 1$



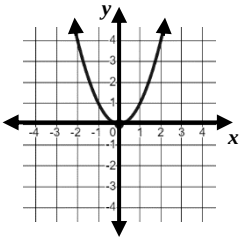
y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

2. Use the graph to find the key features of each function.

$k(x) = x^2$



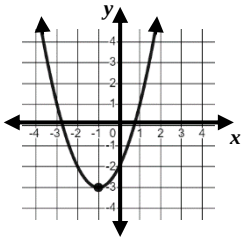
Vertex = (0 , 0)

Opens up *or* Opens down

Leading Coefficient = 1

Wider *or* Narrower *or* No Change

$p(x) = (x + 1)^2 - 3$



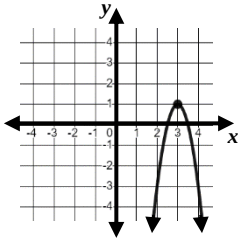
Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$q(x) = -4(x - 3)^2 + 1$



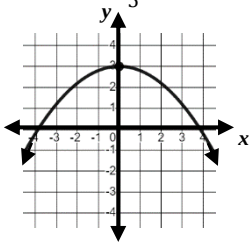
Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$t(x) = -\frac{1}{5}x^2 + 3$



Vertex = (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

3. Reflect: What do you notice about key features of each graph and its equation?

You Do Together: Use what you noticed in problems 1 and 2 to identify key features of each function.

4. $f(x) = -2x - 3$

y-intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$g(x) = \frac{2}{3}x - 1$

y -intercept = ____

Increasing *or* Decreasing *or* Neither

Slope = ____

$j(x) = -4(x + 1)^2 - 3$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

$k(x) = \frac{1}{3}x^2 - 4$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ____

Wider *or* Narrower *or* No Change

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Visual Guided Practice

Name: _____

Learning Target: I will identify the graph of linear and non-linear functions.

Form C (Continued)

You Do Together: Identify each key feature and sketch each function.

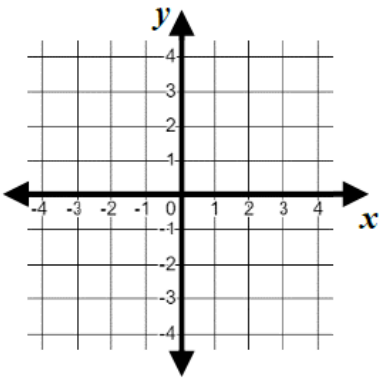
5. Linear Functions:

$p(x) = -3x - 2$

y-intercept = ☐

Increasing *or* Decreasing *or* Neither

Slope = ☐

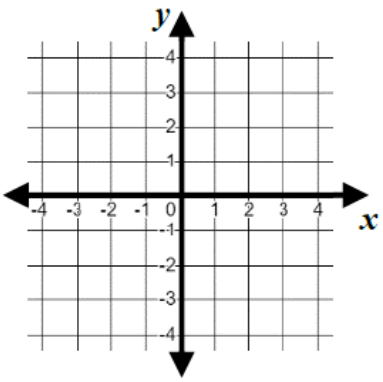


$q(x) = \frac{1}{3}x + 2$

y-intercept = ☐

Increasing *or* Decreasing *or* Neither

Slope = ☐



6. Non-Linear Functions:

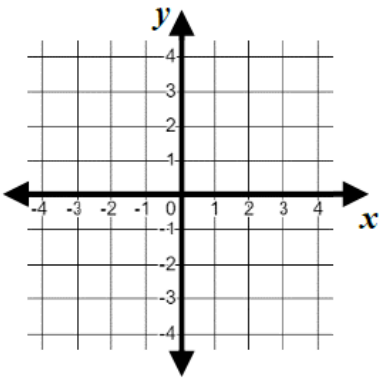
$r(x) = 3(x-1)^2 - 4$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ☐

Wider *or* Narrower *or* No Change



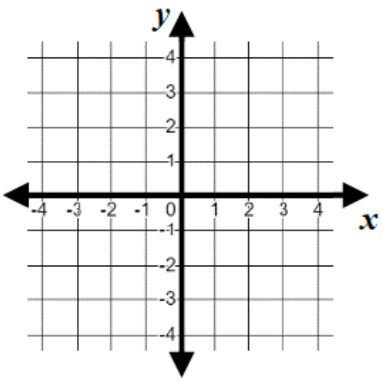
$t(x) = -\frac{1}{3}x^2 + 4$

Vertex: (,)

Opens up *or* Opens down

Leading Coefficient = ☐

Wider *or* Narrower *or* No Change



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