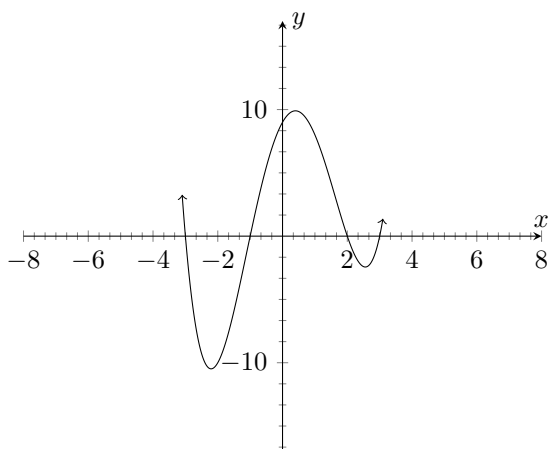


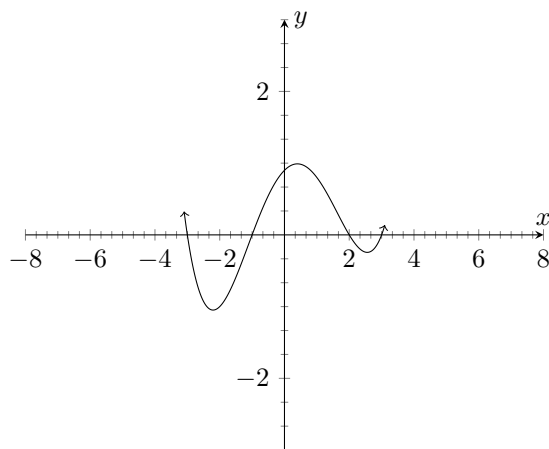
Rigid Translation Practice

*This is practice for understanding/identifying **rigid** translations geometrically.*

Problem 1 Consider the following graph and its transformation:



Original Curve



Transformed Curve

Is this transform a rigid translation?

Multiple Choice:

Learning outcomes:

Rigid Translation Practice

(a) No ✓

(b) Yes

Problem 1.1 Why not?

Multiple Choice:

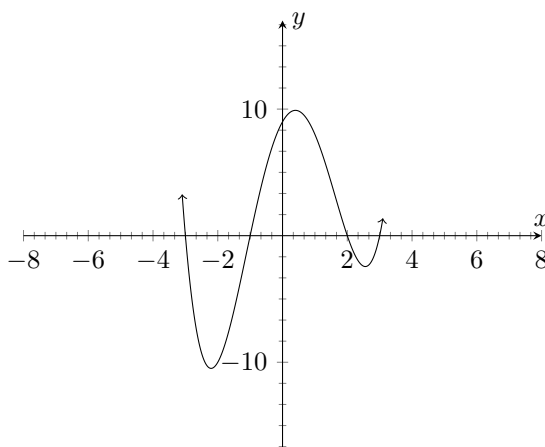
(a) Because it didn't move anywhere

(b) Because the function still has the same general shape.

(c) Because the function has been compressed to a different shape. ✓

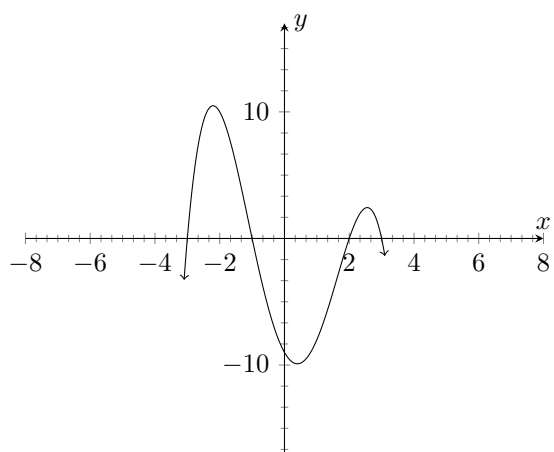
(d) Because the function got shorter, but not thinner.

Problem 2 Consider the following graph and its transformation:



Original Curve

Rigid Translation Practice



Transformed Curve

Is this transform a rigid translation?

Multiple Choice:

- (a) No ✓
- (b) Yes

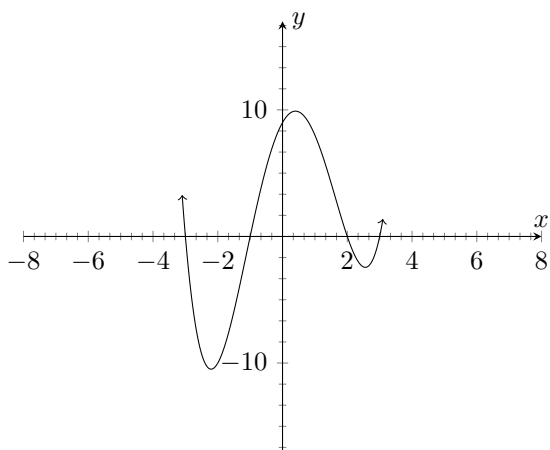
Problem 2.1 Why not?

Multiple Choice:

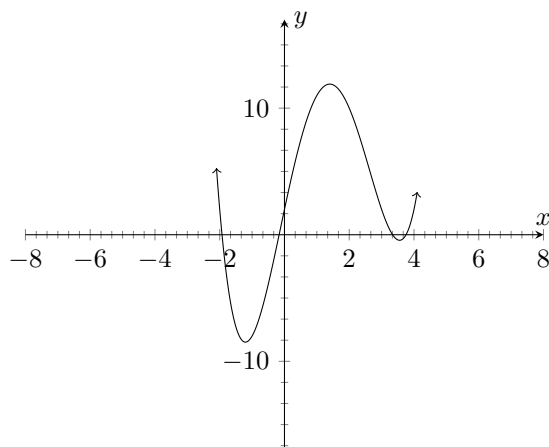
- (a) Because it didn't move anywhere
- (b) Because the function still has the same general shape.
- (c) Because the function has been compressed to a different shape.
- (d) Because the function has flipped, which isn't just a slide. ✓

Problem 3 Consider the following graph and its transformation:

Rigid Translation Practice



Original Curve



Transformed Curve

Is this transform a rigid translation?

Multiple Choice:

- (a) No
- (b) Yes ✓

Problem 3.1 *Why?*

Multiple Choice:

- (a) *Because it slid up and right, but maintained it's rigid structure* ✓
- (b) *Because the function still has the same number of direction changes.*

Rigid Translation Practice

- (c) *Because the function has been moved.*
- (d) *Because the function has not flipped, which isn't just a slide.*
