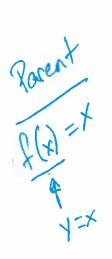
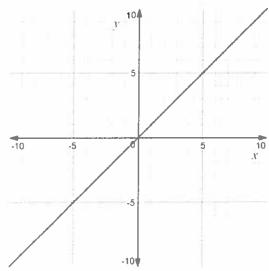
Transformations of Linear Functions

1. Describe the translation in g(x) = x - 2 as it relates to the graph of the parent function.



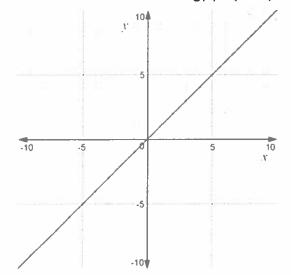


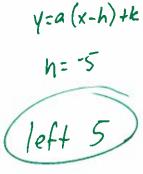
K:-2 Tawn 2

2. Describe the translation in g(x) = x + 3 as it relates to the graph of the parent function.



3. Describe the translation in g(x) = (x + 5) as it relates to the graph of the parent function.



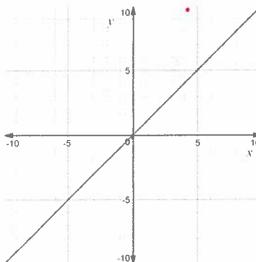


(h is opposite)

4. Describe the translation in g(x) = (x - 7) as it relates to the graph of the parent function.

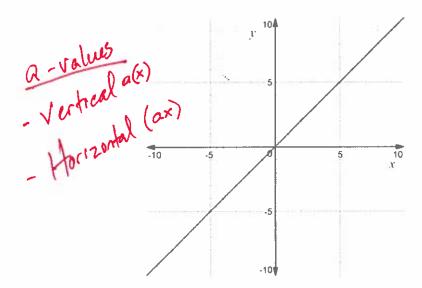
Transformations of Linear Functions

5. Describe the translation in g(x) = (x - 6) + 3 as it relates to the graph of the parent function.



Right 6
up 3

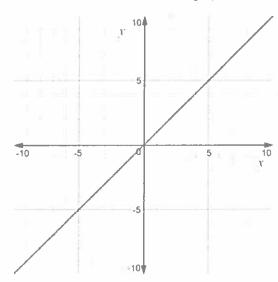
- 6. Describe the translation in g(x) = (x 4) + 10 as it relates to the graph of the parent function.
 - Eight 4 Up 10
- 7. Describe the translation in g(x) = 2(x) as it relates to the graph of the parent function.



Vertical Stretch

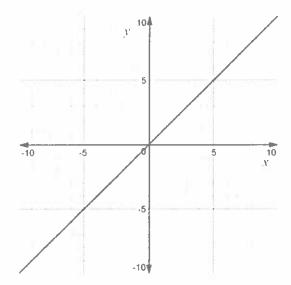
Transformations of Linear Functions

8. Describe the translation in g(x) = (1/4x) as it relates to the graph of the parent function.



Horizontal
Stretch

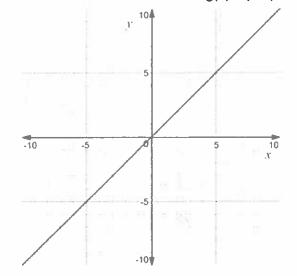
9. Describe the translation in $g(x) = -\frac{1}{2}(x)$ as it relates to the graph of the parent function.



Vertical Compression

Reflect over X-axis

10. Describe the translation in g(x) = (-3x) as it relates to the graph of the parent function.



· Horizontal compression · Reflect over y-axis

•
$$Y = (6x + 8) - 1$$

• Paun 1 • Horiz. compress
• left 8