

## ***Intermediate Algebra Skill***

### **Sketching Graphs Involving Vertical Translation**

Sketch the graph:

1)  $y = 5x + 1$

2)  $f(x) = x - 2$

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

4)  $h(x) = 3 + x^2$

5)  $j(x) = |x| - 2$

6)  $g(x) = 3 + |x|$

7)  $f(x) = \sqrt{x} - 1$

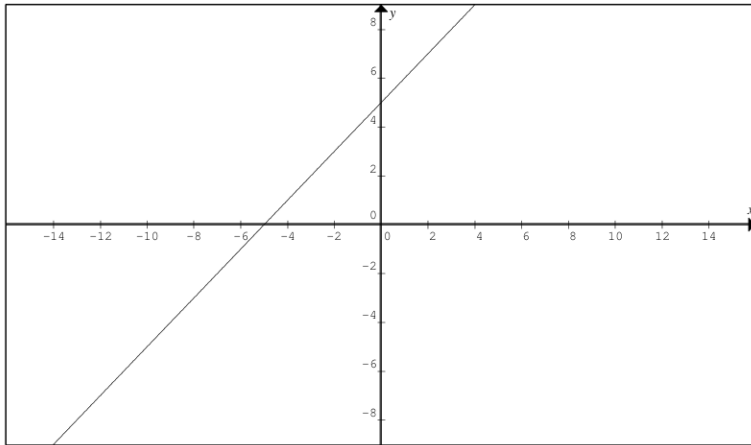
8)  $T(x) = 1 + \sqrt{x}$

9)  $Q(x) = \frac{1}{x} - 2$

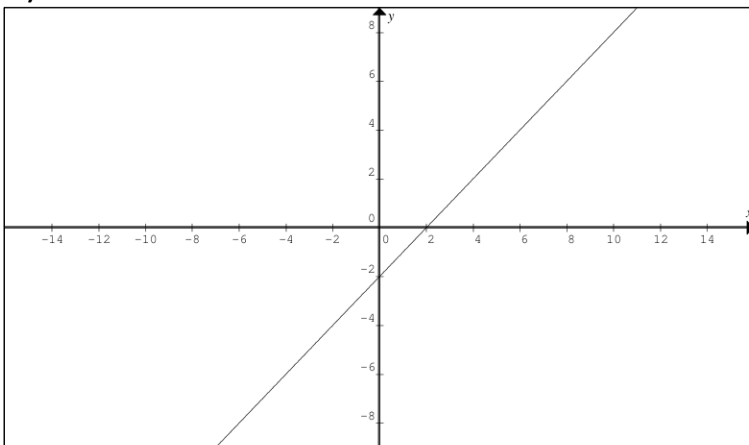
10)  $H(x) = 3 + \frac{1}{x}$

# Answers to Sketching Graphs Involving Vertical Translation

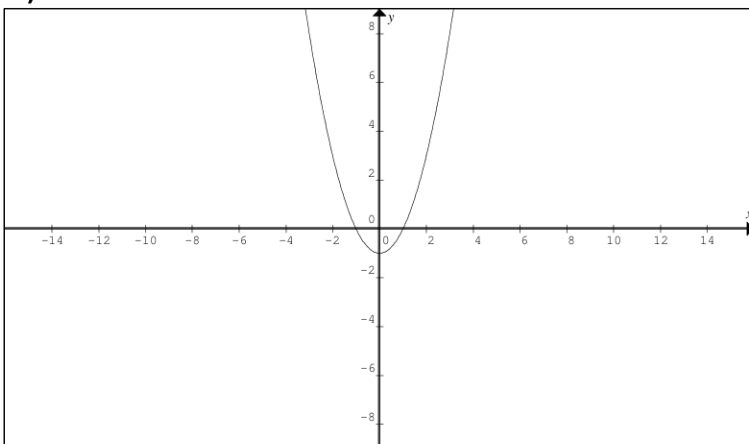
1)



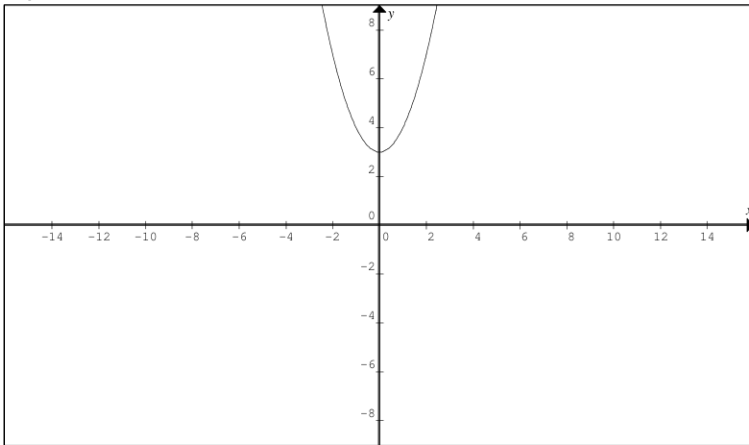
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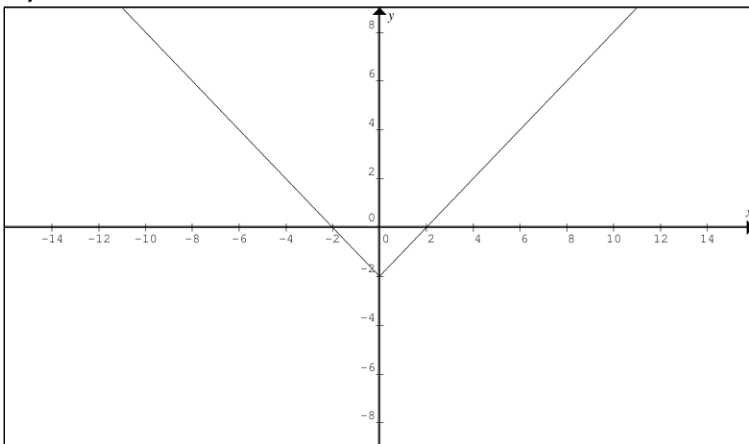
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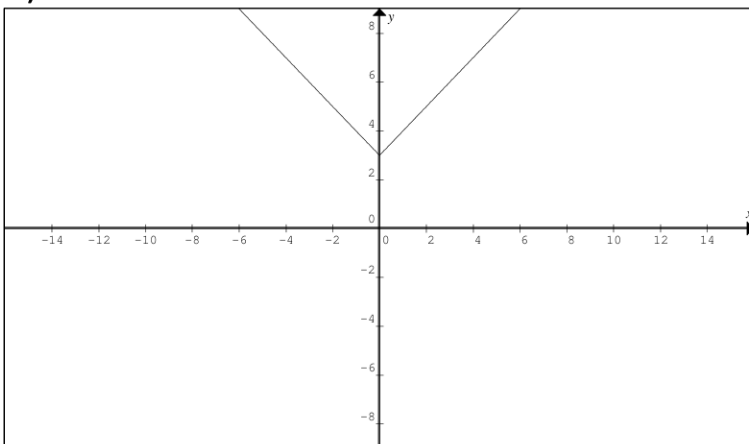
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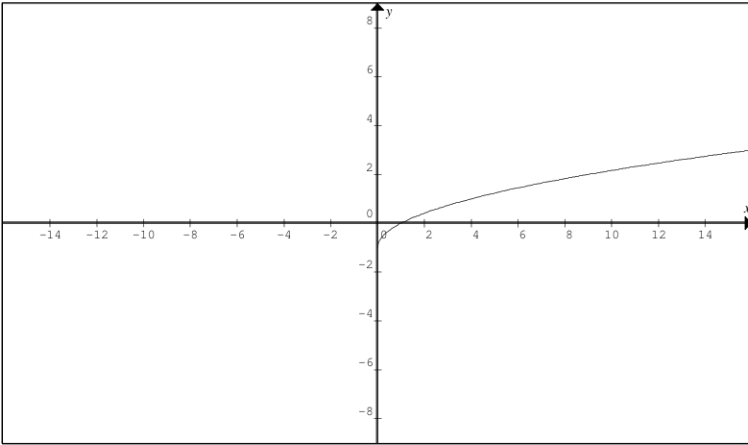
5)



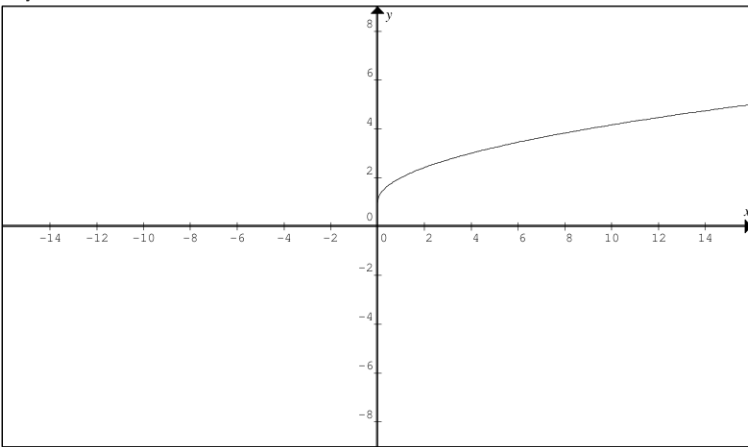
6)



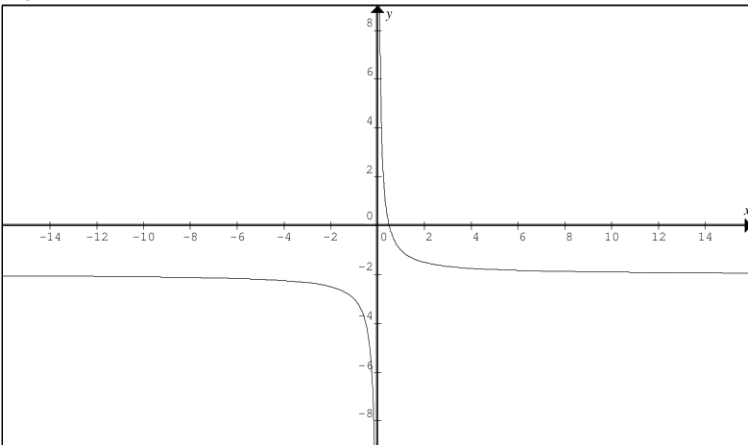
7)



8)



9)



10)

