The graph of a function y = f(x) is translated 4 units down. If the equation of its image has the form y - d = f(x), determine the value of "c".

2.8 Comparing
$$y = f(x)$$
 to $y - k = f(x)$
$$y - 3 = |x|$$

$$y + 7 = |x|$$

- 1. The graph of a function y=f(x) is translated as described below. The equation of its image has the form y = f(x) + d. Determine the value of **d** for each transformation.
 - a) Translate the graph 6 units down.
 - b) Translate the graph 1 unit up.
- x) is translated as discribed below. The equation of its image are range value of **d** for each transformation.
 - a) Translate the graph 7 units up.
 - b) Translate the graph 13 units down.

2.10 Example 1

Sketch the graph of the function: $y = \sqrt{x+3} - 4$

