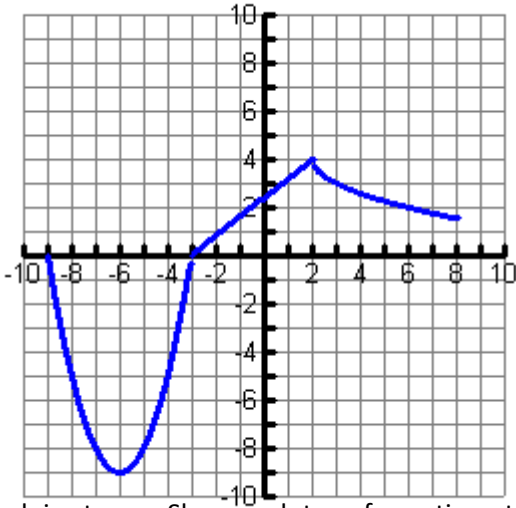


Class Assignment – 2.5 – 2.6

The graph below uses only functions from the library of functions. Assume stretches or compressions of those functions, just translations.

Write a piece-wise function:



$$f(x) = \begin{cases} (x + 6)^2 - 9 & -9 \leq x < -3 \\ \frac{4}{5}x + 2\frac{2}{5} & -3 \leq x < 2 \\ -\sqrt{x - 2} + 4 & 2 \leq x \leq 8 \end{cases}$$

Graph in stages. Show each transformation at each stage identifying at least 3 points.

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

