This Worksheet will be collected at the beginning of class on Friday, April 19th

1.4. Combinations of Transformations

1. Let \( f \) be given by the graph below.

Sketch the following transformations.

a) \(-f(x - 2)\)
b) $f(2x) + 2$

c) $2f\left(\frac{x + 1}{2}\right) + 1$
2. Find an equation for each of the graphs below.

a)


b)
c)
1.6. Periodic Functions

1. Let \( f \) be a periodic function with period 3 so that \( f(x) = 2(x + 2)^{1/2} \) on the interval \((-2, 1]\).

   a) Sketch the graph of \( f \)

   b) Compute \( f(24), f(-13) \) and \( f(101) \)
c) Find all roots of \( f \).

d) Find all values of \( x \) so that \( f(x) = 2 \).