

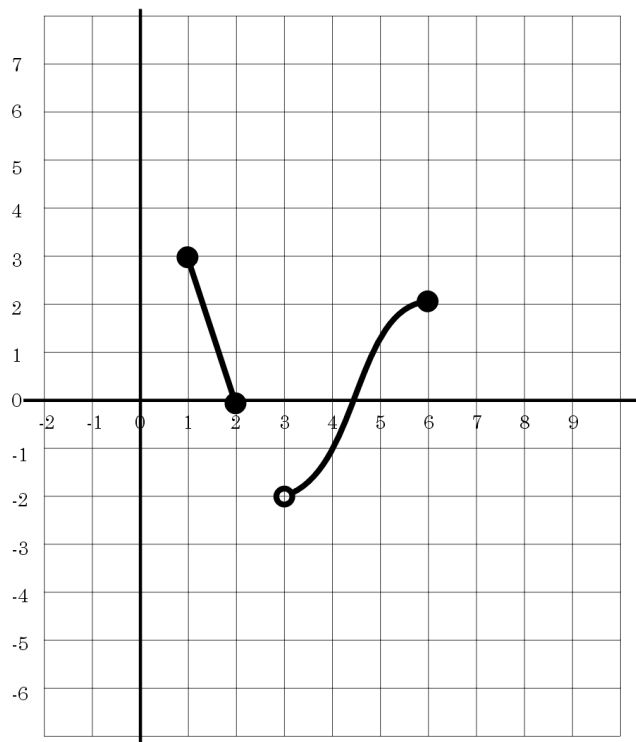
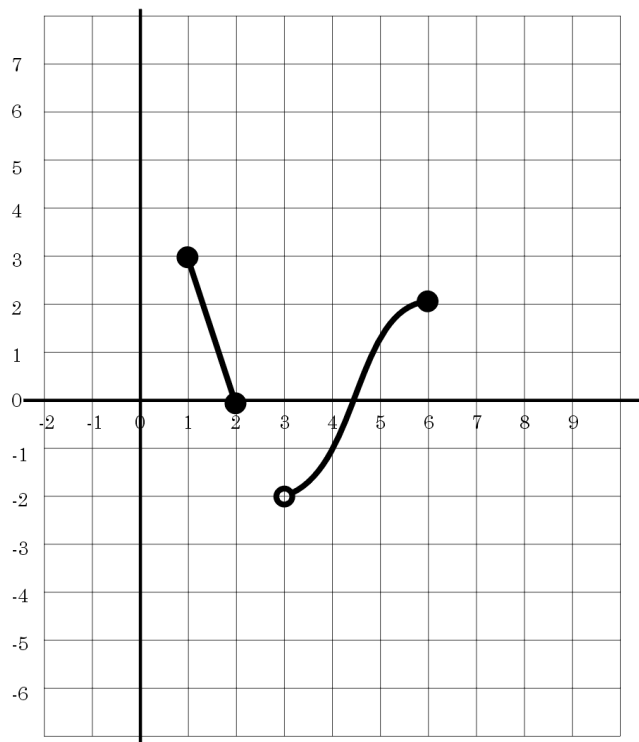
1. Consider the function  $g(t)$  whose *entire* graph is shown below. (There are TWO copies; you'll need both of them in part 1C.) Find the following: Use correct interval notations for the domain and range. You might need a "union" sign somewhere such as in " $(15, 20] \cup (35, \infty)$ ".

1A The domain of  $g(t)$ ?

The range of  $g(t)$ ?

The  $x$ -intercept(s) of  $g(t)$ ?

1B. Find a good approximation to  $g'(4)$ . Sketch any appropriate tangent lines and show the numbers or points you used in your solution.



1C. On the axes above, make a good sketch of each of these two functions:

(1) On the left-hand graph, draw  $g(x - 2)$

(2) On the right-hand graph, draw  $-2g(x)$