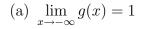
## TMATH 124: Quiz 2

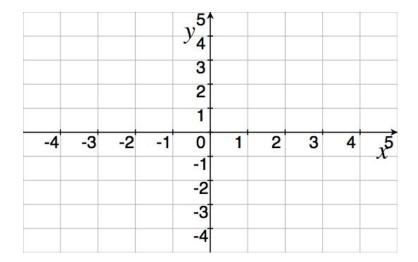
Show all your work (numerically, algebraically, or geometrically) for each and simplify. No credit is given without supporting work. No calculators or notes are allowed.

1. [4] (Day 3 & 4) Draw a function g such all three conditions below are met:



(b) g is not continuous at x = 1.





2. [3] Find a rule for the function g you drew above that satisfies the four conditions.

3. (WebHW5 #5) [3] Find the equation of the line tangent to  $f(x) = 6 + 4x^2$  when x = 1