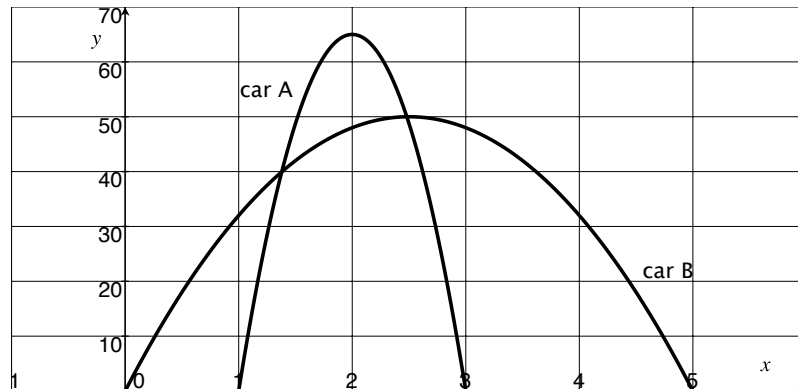


# Quiz 6

## TQS 211

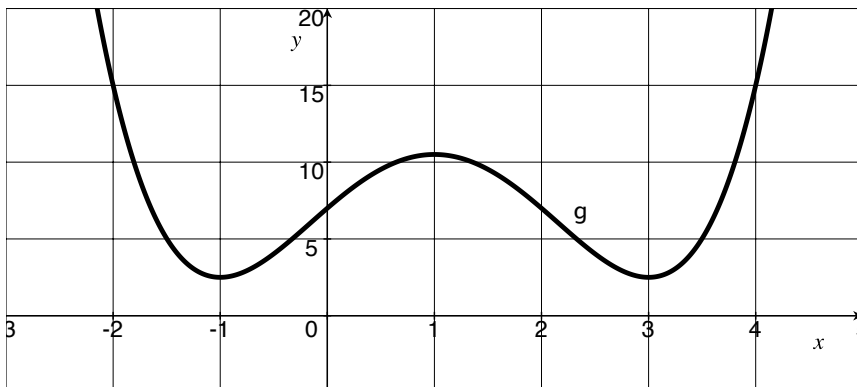
Show *all* your work (algebraically or geometrically) for each and simplify. No credit is given without supporting work.

- (§5.1 #4) Two cars start at the same place and travel in the same direction along a straight road. The graph below gives the velocity  $y$ , of each car as a function of time  $x$ .



- [1] Which car starts first?
- [2] Which car attains the larger maximum velocity? What is it?
- [2] Which car travels farther? Justify your answer.

2. (§5.2 #5) [3] Use the graph below to estimate  $\int_{-2}^4 g(x) dx$  with a left-hand sum and six rectangles.



3. (§5.2 # 16) [2] Use the graphs below to find  $\int_{-2}^4 f(x) dx$ .

