

**MA341 — Homework #4**  
**Due Wednesday, February 26, in class**

1. Solve Problem 3.3.24. Assume that the near bank of the river is given by the line  $y = 0$ ,  $A = (x_1, x_2)$ ,  $B = (x_2, y_2)$ , and  $C = (x, 0)$ . Use calculus but interpret the location of the point  $C$  your solution geometrically.
2. Solve Problem 3.3.28. Simplify as much as possible. In particular, your final answer should not contain any square roots.