

RETTEMAL MA1101 HØST 2023

Total of 70 points possible, 10 per problem. Minor computational mistakes that do not affect the overall problem are not penalized. The distribution of points is as follows:

- (1) **1p** per correct true/false
- (2) Intervals (**2p**), asymptotes (**3p**), sketch (**3p**), max value (**2p**)
- (3a) Finding the correct derivatives (**2p**), writing down the correct polynomial (**2p**)
- (3b) Identifying that $|R_2(0.1)|$ bounds the error (**2p**), showing that it indeed is smaller than 0.0005 (**4p**)
- (4) a): **3p**, b): **3p**, c): **4p**, partial points for partial progress (especially for c) – grade generously).
- (5) a): **3p**, b): **3p**, c): **4p**, partial points for partial progress (especially in c)).
- (6) a): **3p**, b): **3p**, c): **4p**, partial points for partial progress.
- (7) a): **4p**, b): Correctly applying the definition of the improper integral. (**3p**) Using the comparison test correctly (**3p**).

Grade limits:

- f: 0-18
- e: 19-27
- d: 28-34
- c: 35-41
- b: 42-53
- a: 54-70