

## Solution to practice test

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1 (1) 0 (2)  $-1$  (3) 0

2 (1)  $D_f = R$ ;  $R_f = [0, \sqrt{2}]$  (2) Can simply pick  $a = 0$  and  $b = 2$  and apply IVT.

3  $\alpha \in (-\infty, 1]$