P. 202 #1-8 Answers to Evens

#2: (a) Yes (b) $c = \frac{1}{2}$

#4: (a) No. There is a corner at $x = 1$

#6: (a) Yes. (b) $c \approx 2.820$

#8: (a) No. The function is discontinuous at $x = 1$.