Session 1

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Solutions

1. (a)   i. 0.53125
      ii. 0.15625
      iii. -0.41
      iv. -0.59375

   (b) -0.16

   (c) $\Delta x \to \{-0.18, 0.10\}$

2. (a)   i. -0.88
      ii. -0.97
      iii. -0.97
      iv. -0.88

   (b) -1.0

   (c) $\Delta x \to \{-0.44, 0.44\}$

3. (a)   i. -0.59
      ii. -0.41
      iii. 0.16
      iv. 0.53

   (b) -0.16

   (c) $\Delta x \to \{-0.1, 0.08\}$

4. (a) No, it was a range in each case. Maybe I didn't understand the problem?? Maybe I did it correctly *(just reviewed the solutions)*.

   (b) When the curve tends to be pretty "straight line-ish" *($\leftarrow$ Got this one wrong. When the curve is very "bendy" or "curvy" then Δx has to be pretty close to 0 in order for the slopes to be equal)*.