

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) $\Delta x \rightarrow \{-0.18, 0.10\}$
2. (a) i. -0.88
ii. -0.97
iii. -0.97
iv. -0.88
(b) -1.0
(c) $\Delta x \rightarrow \{-0.44, 0.44\}$
3. (a) i. -0.59
ii. -0.41
iii. 0.16
iv. 0.53
(b) -0.16
(c) $\Delta x \rightarrow \{-0.1, 0.08\}$
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" **(← 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.**