http://www.tapir.caltech.edu/~cott/ay190

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Class Today

• Everything working? All set up?
• Teams based on survey.
• Lecture: “Best of” of the Ay190 notes; does not (and is not intended to) replace reading!
• Worksheet 2:
  FP numbers, finite differences, interpolation
Teams

- OhG3Q – 1QWM3
- HVsob – y7Yvq
- 5x60A – HTgcv
- ybuhm – zcLRy
- zG7P3 – yRoyb
- f8lqe – cxj8f
- o713L – 91lL6
- L44jl
Figure III.3.1: The interpolation problem.
Interpolation

\[ f(x) = \frac{1}{25x^2 + 1} \]

Runge’s Phenomenon
Important Concepts to Remember

- Floating point round-off error.
- Truncation error.
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- Floating point round-off error.
- Truncation error.
- Higher-order interpolation does not necessarily mean more accurate (→ Runge’s phenomenon).