5.1.2 Exam: Identification of exact solution behavior

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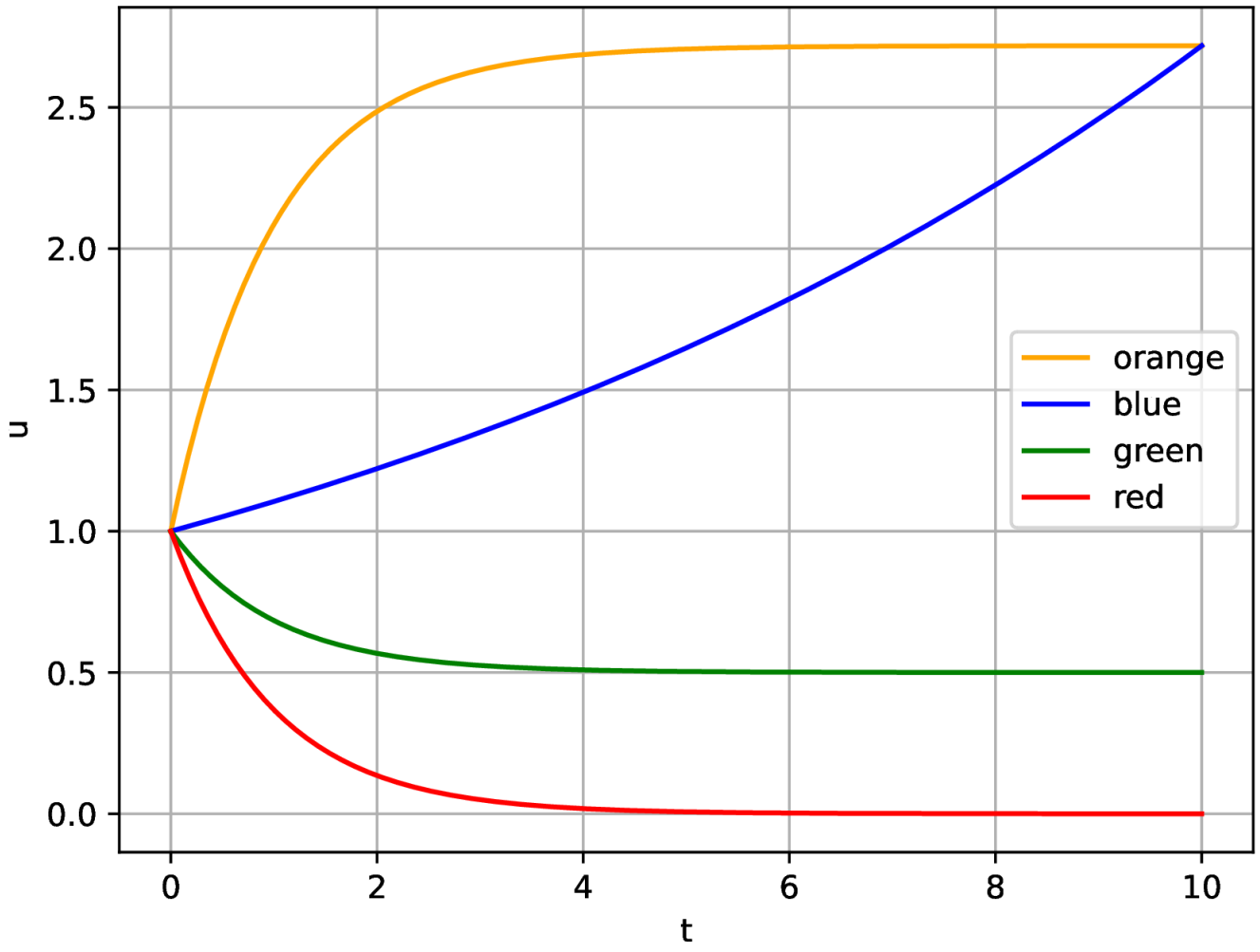
Exams due Aug 30, 2023 05:00 IST Completed

Using our canonical notation for an Initial Value Problem (IVP) as described in Section 8.3.1, consider a scalar IVP for which,

$$f = \lambda u \tag{5.1}$$

where λ is a constant (independent of time and u).

Consider the plots shown in the figure below.



Problem: Identify the exact solution

4.0/4.0 points (graded)

Which line is a solution to the scalar IVP with $\lambda = 0.1$?

- orange
- blue
- green
- red
- None of the above

✔

Which line is a solution to the scalar IVP with $\lambda = -1$?

- orange

- ○ blue
- ○ green
- ◉ red
- ○ None of the above

✔

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