

# MTH 376

## Homework 1

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### 1 Section 1.1

- 2. ODE, 2nd order, indep. var.  $x$ , dep. var.  $y$ , linear.
- 8. ODE, 2nd order, indep. var.  $x$ , dep. var.  $y$ , nonlinear.

### 2 Section 1.2

- 8. yes.
- 12. yes.
- 20. **a.**  $-1, -5$   
**b.**  $0, -1, -2$