

1. Besides an equal sign, a differential equation always has a(n) derivative.
2. A mathematical model describes some physical process.
3. The model from 1.1 used to describe an object in free fall takes into account gravity and air resistance.
4. The model of predator and prey from section 1.1 assumes that the predator kills the prey at a constant rate.
5. If the dependent variable depends on more than one independent variable, then the differential equation has a(n) partial derivative.