

**Differential Equations MATH 2073 Quiz-3<sub>A</sub>**

**Instructions.** Be sure to show your work so that it is clear how you got your answers.

1. Determine the equilibrium points of  $y' = (y - 1)(5 - y)$ , and classify each as asymptotically stable or unstable.

2. Find the general solution of  $y' = (y - 1)(5 - y)$ . Write your answer in explicit form.

## Differential Equations MATH 2073 Quiz-3c

**Instructions.** Be sure to show your work so that it is clear how you got your answers.

1. Determine the equilibrium points of  $y' = (y - 1)(3 - y)$ , and classify each as asymptotically stable or unstable.

2. Find the general solution of  $y' = (y - 1)(3 - y)$ . Write your answer in explicit form.

**Differential Equations MATH 2073 Quiz-3<sub>D</sub>**

**Instructions.** Be sure to show your work so that it is clear how you got your answers.

1. Determine the equilibrium points of  $y' = (y - 1)(6 - y)$ , and classify each as asymptotically stable or unstable.

2. Find the general solution of  $y' = (y - 1)(6 - y)$ . Write your answer in explicit form.