

NAME: \_\_\_\_\_ ID: \_\_\_\_\_ Section: \_\_\_\_\_

**Exercise 1** (5 points) Find a general solution of the system  $Y' = AY$ , where  $A = \begin{bmatrix} 1 & 2 & 2 \\ 0 & 1 & 4 \\ 0 & 2 & 3 \end{bmatrix}$

---

**Exercise 2** (5 points) Solve the system  $Y' = AY$ , where  $A = \begin{pmatrix} 2 & -2 \\ 2 & 2 \end{pmatrix}$

NAME: \_\_\_\_\_ ID: \_\_\_\_\_ Section: \_\_\_\_\_

**Exercise 1** (5 points) Find a general solution of the system  $Y' = AY$ , where  $A = \begin{bmatrix} 2 & 0 & 0 \\ 1 & 1 & 5 \\ 1 & 3 & 3 \end{bmatrix}$

---

**Exercise 2** (5 points) Solve the system  $Y' = AY$ , where  $A = \begin{pmatrix} 3 & -2 \\ 2 & 3 \end{pmatrix}$



