

Name: \_\_\_\_\_

MATH 100

Fall 2021

HW 14: Due 12/08

*“One morning I shot an elephant in my  
pajamas. How he got into my pajamas  
I’ll never know.”*

*–Groucho Marx*

**Problem 1.** (10pt) Solve the following system of equations using substitution:

$$y = 2x - 3$$

$$3x - y = 4$$

**Problem 2.** (10pt) Solve the following system of equations using substitution:

$$2x - 3y = -12$$

$$3x + 5y = 1$$

**Problem 3.** (10pt) Solving the following system of equations using elimination:

$$\begin{aligned}x - 3y &= 5 \\ -x + 5y &= 7\end{aligned}$$

**Problem 4.** (10pt) Solving the following system of equations using elimination:

$$2x - 3y = 17$$

$$3x + 2y = 6$$