Learning Goal(s):

MPM 2DI   1.2 Solve by Substitution (Day 2)   Date: _____

Ex. 1   Solve the system by substitution, and include a proper check.

$$4x - 3y = 13 \quad ①$$
$$x - 2y = 12 \quad ②$$

Ex. 2   Solve the system by substitution, and include a proper check.

$$3x - 2y = 10 \quad ①$$
$$9x + y = 2 \quad ②$$

Ex. 3   (p.27 #6)

Samantha works twice as many hours per week as Adriana. Together they work a total of 39 h one week.

a) State how you will assign the variables.

b) Write an equation to represent the information in the first sentence.

c) Write an equation to represent the information in the second sentence.

d) Use the method of substitution to find the number of hours worked by each person.

Practice p. 27 #7, 8, 9