Matrices #1 Answers for class College Algebra / MAT141 - Template

1. $x = 3$
$y = 5$

2. $x = -7$
$y = -1$

3.

$x + 5y = 5$ $-x - 5y = 5$	(•) The system has no solution ( ) The system has a unique solution: $(x, y) =$ (,) ( ) The system has infinitely many solutions. They must satisfy the following equation: $=$
$x + 3y = 3$ $-x - 3y = -3$	( ) The system has no solution ( ) The system has a unique solution: $(x, y) =$ (,) (•) The system has infinitely many solutions. They must satisfy the following equation: $y = -\frac{x}{3} + 1$

4. $x = 3$
$y = 5$
$z = -1$

5. Larger number: 28
Smaller number: 14

6. First storm: 30 hours
Second storm: 25 hours

7. Rate of the cyclist in still air: 16 mi/h
Rate of the wind: 5 mi/h

8. Solution A: 48 ounces
Solution B: 32 ounces .

9. Desktop: $2600
Laptop: $2200

10. First number: 21

Second number: 16

Third number: 48