LC Math I
Name
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## Exam Unit 2 Review

Solve each equation.

1) $\frac{n}{6}=\frac{n+2}{2}$
2) $\frac{2+b}{4}=5$

Solve each system by graphing.
3) $x+3 y=6$
$5 x-3 y=12$


## Solve each system by substitution.

4) $-2 x-y=0$
$8 x+5 y=0$
5) $-24 x+18 y=-6$
$-8 x+6 y=3$

## Solve each system by elimination.

6) $5 x+8 y=16$
$-9 x-7 y=23$
7) $9 x+5 y=15$
$-2 x+4 y=12$
8) The school that Amanda goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 8 adult tickets and 10 student tickets for a total of $\$ 118$. The school took in $\$ 43$ on the second day by selling 6 adult tickets and 1 student ticket. What is the price each of one adult ticket and one student ticket?
9) Molly and Heather each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Molly spent $\$ 171$ on 13 rose bushes and 4 geraniums. Heather spent $\$ 117$ on 3 rose bushes and 12 geraniums. What is the cost of one rose bush and the cost of one geranium?

## Solve each inequality and graph its solution.

10) $0>-8+\frac{x}{2}$

11) $5 k+5 \geq 0$ or $2 k+3<-13$

12) $52 \leq-3 x+7$

13) $-17>4 x-9 \geq-41$


## Sketch the graph of each linear inequality.

14) $7 x+4 y<16$

15) $x+y \leq 4$


## Sketch the solution to each system of inequalities.

16) $x-2 y \geq-8$
$5 x-3 y>9$

17) $8 x+3 y \leq-3$
$x-3 y \geq-24$

18) Also Review:
a) How to create/recognize an equation or system of equations with no solutions or with infinitely many solutions
b) Inequalities with no solution or with
© 20 "all numbersps" as the solution.

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## Exam Unit 2 Review

Date $\qquad$ Period

## Solve each equation.

1) $\frac{n}{6}=\frac{n+2}{2}$
2) $\frac{2+b}{4}=5$
$\{-3\}$
\{18\}

Solve each system by graphing.
3) $x+3 y=6$
$5 x-3 y=12$

$(3,1)$

## Solve each system by substitution.

4) $-2 x-y=0$
$8 x+5 y=0$ $(0,0)$
5) $-24 x+18 y=-6$
$-8 x+6 y=3$
No solution

## Solve each system by elimination.

6) $5 x+8 y=16$
$-9 x-7 y=23$
$(-8,7)$
7) $9 x+5 y=15$
$-2 x+4 y=12$
$(0,3)$
8) The school that Amanda goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 8 adult tickets and 10 student tickets for a total of $\$ 118$. The school took in $\$ 43$ on the second day by selling 6 adult tickets and 1 student ticket. What is the price each of one adult ticket and one student ticket?
adult ticket: \$6, student ticket: \$7
9) Molly and Heather each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Molly spent $\$ 171$ on 13 rose bushes and 4 geraniums. Heather spent $\$ 117$ on 3 rose bushes and 12 geraniums. What is the cost of one rose bush and the cost of one geranium? rose bush: \$11, geranium: \$7

Solve each inequality and graph its solution.
10) $0>-8+\frac{x}{2}$

$x<16$
11) $52 \leq-3 x+7$

$x \leq-15$
12) $5 k+5 \geq 0$ or $2 k+3<-13$

$k \geq-1$ or $k<-8$
13) $-17>4 x-9 \geq-41$

$-8 \leq x<-2$

## Sketch the graph of each linear inequality.

14) $7 x+4 y<16$

15) $x+y \leq 4$


## Sketch the solution to each system of inequalities.

16) $x-2 y \geq-8$
$5 x-3 y>9$

17) $8 x+3 y \leq-3$
$x-3 y \geq-24$

18) Also Review:
a) How to create/recognize an equation or system of equations with no solutions or with infinitely many solutions
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