## Algebra 1

## Mid-Unit 3 Remediation

## solve each systexa by graphing.

1) $y=\frac{1}{3} x+3, M=\frac{1}{3}, h=\frac{2}{3}$
2) $y=\frac{1}{4} x-4$
$y=-\frac{5}{4} x+2$
$y=2 x-2 \quad x=2, b=-2$


## Name

$\qquad$
Date $\qquad$
$(3,4)$


Solve ranch system by substitution.
3) $-3 x+2 y=16$
$x+3 y=13$
$x=13-34$
$x=13-3 y$
4) $x+7 y=7$
$-4 x-6 y=16$
$-3(13-3 y)+2 y=16$

$$
x=13-3(5)
$$

$$
x=13-15
$$

$-39+4+2 y=10$
$x=-2$
$-39+14 y=46$
$+39 \quad+36$
$(-2,5)$

$$
\begin{gathered}
\frac{11 y}{11}=\frac{55}{15} \\
y=5
\end{gathered}
$$

-1-

## Solve each system by elimination.

$$
\begin{aligned}
& \text { 5) }(-5 x+7 y=-11) 2 \\
& 9 x+14 y=17 \\
& -3 x+14 y=-22 \\
& \frac{-x}{-1}=\frac{-5}{-1} \\
& -5(5)+7 y=-11 \\
& -35+7_{t-2}=-11 \\
& x=5 \\
& \text { 草 } 25+25 \\
& 74=\frac{14}{7} \\
& y=2 \\
& \text { 6) } 4 x-16 y=-2 \\
& -2 x+20 y=16
\end{aligned}
$$

7) Ted and Kalif each improved their yards by planting anyilies and omanental grass. They bought their supplies from the same store. Ted spent $\$ 15$ on 1 daylily and 2 bunches of omanental
 tayitly and the coss of one baton of ornamental grass.
$-5(d+2 g=15)$
$10 d+10 y=130$
$-5 d-10 \%=-7$
$\frac{50}{5}=\frac{55}{5}$

$$
\begin{array}{r}
1+29 \\
-11
\end{array}=15
$$

$$
\frac{2 g}{2}=\frac{14}{2}
$$

$$
g=7
$$

$$
\begin{gathered}
\text { clyyillies } 41 \\
\text { grass } 82
\end{gathered}
$$

$c=11$
8) The school that Shayma goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 2 senior citizen tickets and 12 student tickets for a total of $\$ 198$. The school took in ${ }^{\text {\#3 }} 306$ on the second day by selling 12 senior citizen tickets and 9 student tickets. What is the price each of one senior citizen ticket and one student ticket?

