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6.2-6.4 Review for Test 6B Period

## Solve each system by substitution.

1) $-3 x-3 y=3$
$4 x+y=-16$
2) $-3 x+y=4$
$4 x-2 y=-6$
3) $y=3 x-1$
$y=8 x+4$
4) $-6 x+3 y=24$
$y=-4 x-10$
5) $3 x-4 y=-17$
$-6 x+3 y=24$
6) $3 x-3 y=15$
$3 x+3 y=-3$

## Solve each system by elimination.

7) $-2 x-3 y=4$
$2 x+8 y=-14$
8) $x-6 y=23$
$x-y=8$
9) $-12 x+8 y=-12$
$-6 x-2 y=-6$
10) $-7 x-3 y=-21$
$8 x+8 y=-8$
11) $4 x+2 y=14$ $5 x+3 y=17$
12) $-5 x+y=-7$
$-10 x+7 y=1$

Write each system in proper form. Then solve using either substitution or elimination.Solve each system by elimination.
13) $-16+4 x+7 y=0$
$3 x=-y+12$

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\text { 14) } \begin{aligned}
& -12+8 y=x \\
& 0=2 x+16 y-8
\end{aligned}
$$

## Write and solve a system of equations.

15) Matt and Sumalee each improved their yards by planting hostas and shrubs. They bought their supplies from the same store. Matt spent $\$ 74$ on 7 hostas and 2 shrubs. Sumalee spent $\$ 78$ on 6 hostas and 9 shrubs. Find the cost of one hosta and the cost of one shrub.
16) The school that Daniel goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 8 senior citizen tickets and 8 child tickets for a total of $\$ 208$. The school took in $\$ 174$ on the second day by selling 4 senior citizen tickets and 9 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
