Solving Systems: Elimination Method Name_____

1. Eliminate one variable	2. Solve for other variable	3. Check
$5x+3y=10$ $2x-3y=4$		
1. Eliminate one variable	2. Solve for other variable	3. Check
$5x-3y=9$ $x+5y=13$		
1. Eliminate one variable	2. Solve for other variable	3. Check
$4x+2y=14$ $7x-3y=-8$		

Solving Systems: Elimination Method

Name Key

1. Eliminate one variable	2. Solve for other variable	3. Check
$5x+3y=10$ $2x-3y=4$ $7x = 14$ $\frac{7}{7} \quad \frac{14}{7}$ $x = 2$	$5x+3y=10$ $5(2)+3y=10$ $10+3y=10$ $-10 \quad -10$ $\frac{3y}{3} = \frac{0}{3}$ $y=0$ (2,0)	$5x+3y=10$ $5(2)+3(0)=10$ $10+0=10$ $10=10$ ✓ $2x-3y=4$ $2(2)-3(0)=4$ $4-0=4$ $4=4$ ✓
1. Eliminate one variable	2. Solve for other variable	3. Check
$5x-3y=9$ $-5(x+5y=13)$ $5x-3y=9$ $-5x-25y=-65$ $-28y = -56$ $\frac{-28y}{-28} \quad \frac{-56}{-28}$ $y=2$	$x+5y=13$ $x+5(2)=13$ $x+10=13$ $-10 \quad -10$ $x=3$ (3,2)	$5x-3y=9$ $5(3)-3(2)=9$ $15-6=9$ $9=9$ ✓ $x+5y=13$ $3+5(2)=13$ $3+10=13$ $13=13$ ✓
1. Eliminate one variable	2. Solve for other variable	3. Check
$3(4x+2y=14)$ $2(7x-3y=-8)$ $12x+6y=42$ $14x-6y=-16$ $\frac{26x}{26} = \frac{26}{26}$ $x=1$	$4x+2y=14$ $4(1)+2y=14$ $4+2y=14$ $-4 \quad -4$ $\frac{2y}{2} = \frac{10}{2}$ $y=5$ (1,5)	$4x+2y=14$ $4(1)+2(5)=14$ $4+10=14$ $14=14$ ✓ $7x-3y=-8$ $7(1)-3(5)=-8$ $7-15=-8$ $-8=-8$ ✓