N: _____ D: _____ P: 1 2 3 4 5 6

Algebra 2 // 3.2 Practice // **Practice 1** *Mission Hills Math 2013*

Directions: Solve the following systems using *Elimination*

1. $\begin{cases} 3x + y = 1 \\ -2x - y = -4 \end{cases}$

2. $\begin{cases} x + y = -6 \\ -x + 2y = -27 \end{cases}$

3. $\begin{cases} 2x + \frac{1}{2}y = -2 \\ -2x - \frac{1}{4}y = 4 \end{cases}$

Solution: Solution: Solution:

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4. $\begin{cases} 2x - 3y = 61 \\ 2x + y = -7 \end{cases}$

5. $\begin{cases} x + 4y = 5 \\ 3x - 2y = -13 \end{cases}$

6. $\begin{cases} 2x + 3y = 5 \\ 4x + 6y = 10 \end{cases}$

Solution: Solution: Solution:

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7. $\begin{cases} 2x + 5y = 8 \\ 7x + 2y = -3 \end{cases}$

8. $\begin{cases} -8x + 2y = 4 \\ -12x + 3y = -15 \end{cases}$

9. $\begin{cases} 6x - 2y = -3 \\ 8x - 3y = -5 \end{cases}$

Solution: Solution: Solution:

Solutions:

1) (-3, 10)
2) (5, -11)
3) (-3, 8)
4) (5, -17)
5) (-3, 2)
6) Infinitely Many Solutions
7) (-1, 2)
8) No Solution
9) (1/2 , 3)