Mr. Klansek Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date: \_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_

**Solving for a Variable**

This sheet focuses on solving for “y.” This concept is necessary for physics. If you need more room, use another piece of paper.

***Solve for “y”.***

1) 3x + y = 12 2) 2x + y = 41 3) x + y = 4

4) 3x – y = 16 5) -5x – y = 12 6) 6x + 2y = 12

7) $ \frac{3x}{6}+ y = 8$ 8) $x + \frac{2y }{5}= 9$ 9) $–6x= 9y+11$

10) $3x= \frac{5y- 12}{3}$ 11) $\frac{3x }{2y}= 17$ 12) $\frac{-5x – 9y }{4}= 23$

13)$ \frac{(^{7}/\_{3})y}{(^{1}/\_{2})x} = \frac{18}{m}$ 14) $\frac{5}{x + 4y} = -31$

**When you are finished:** assume that x = -3; what is the value of y for each problem?

1. \_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_5. \_\_\_\_\_\_\_6. \_\_\_\_\_\_\_7. \_\_\_\_\_\_\_

8. \_\_\_\_\_\_\_9. \_\_\_\_\_\_\_10. \_\_\_\_\_\_\_11. \_\_\_\_\_\_\_12. \_\_\_\_\_\_\_13. \_\_\_\_\_\_\_14. \_\_\_\_\_\_\_