

Name: _____

Date: _____

Isolate one variable, then plug that expression into the OTHER equation. Last two are challenge problems!

1. $y = 2x$ and $x + y = 9$. Solve.

show your work

2. $y = x + 1$ and $x + y = 7$.

show your work

3. $y = 3x$ and $2x + y = 15$.

show your work

4. $y = x - 2$ and $3x + y = 10$.

show your work

5. $x = 2y$ and $x + 3y = 15$.

show your work

6. $y = 2x + 1$ and $3x + 2y = 16$.

show your work

7. $y = -x + 8$ and $2x - y = 7$.

show your work

8. $x - y = 3$ and $2x + y = 12$. (Isolate first!)

show your work

9. $3x - y = 10$ and $2x + 5y = 1$. ★ CHALLENGE

show your work

10. $y = x^2 - 3$ and $y = 2x$. Solve the linear-quadratic system. ★ CHALLENGE

show your work