-X + 4y = 93x + 2y = 1

- + + + = 9 3 + 2 = 1

=1, =2, -1+4(2)=7 = 9FALSE

Function "-X+4y=9" (Rx, Ry) if(-x+4y=9)Zreturn JRUE, 3 else { return. FALSE;

Function "O=5" (RX, Ry) If (0=5) E return TRUE; 3 else E return FALE:

Find (u,v): "- x+4y=9"(4, V) and "3x+2y=1"(u, v) and print "Yippee!"; (Eureha)

Solving Linear Systems: Key Step

If x and y satisfy

then x and y also satisfy and vice versa

then x and y also satisfy and vice versa

then x and y also satisfy and vice versa

then *x* and *y* also satisfy and vice versa

- -x + 4y = 93x + 2y = 1
- -x + 4y = 914y = 28

-x + 4y = 9y = 2

-x + 8 = 9y = 2

 $\begin{array}{cc} x & = -1 \\ y = 2 \end{array}$

