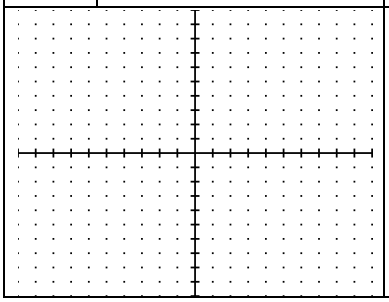
Way Cool Algebra Name _____ Period ____

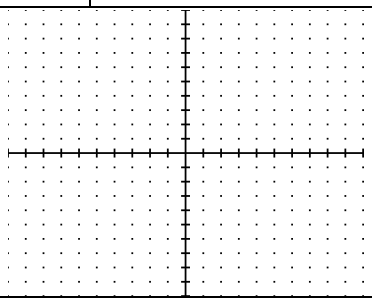
Graphs – Systems **Special Systems** Assign # _____

Graph each **System** and decide **how many solutions** the system has.

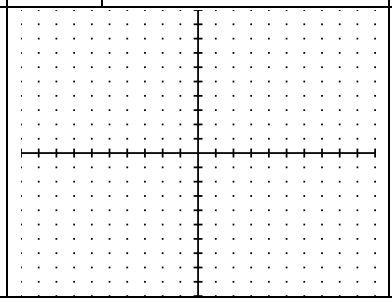
1 $2x + y = 4$, $4x - 2y = 16$



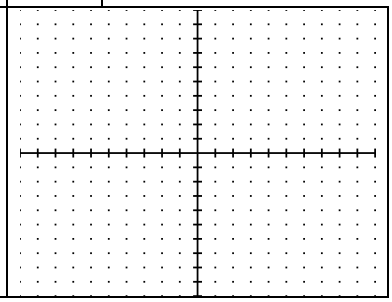
2 $2x + y = 5$, $2x + y = 1$



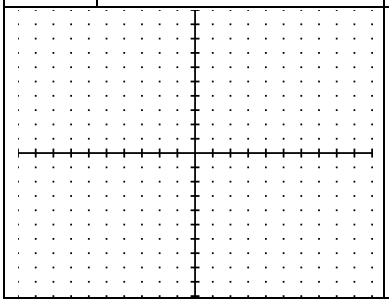
3 $3x + y = -1$, $-9x - 3y = 3$



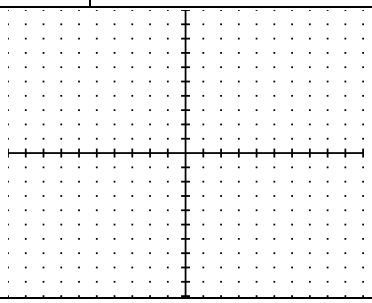
4 $2x + y = 5$, $-6x - 3y = -15$



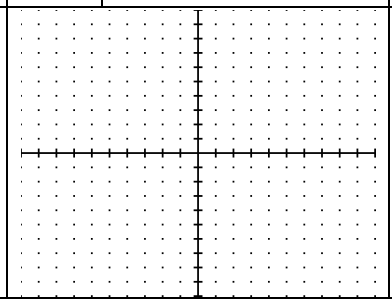
5 $-6x + 2y = 4$, $-9x + 3y = 12$



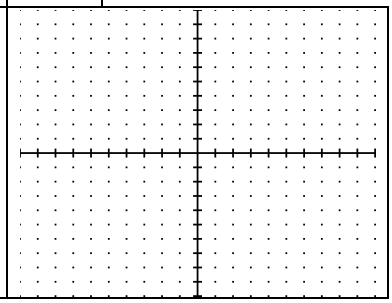
6 $2x + y = 7$, $3x - y = -2$



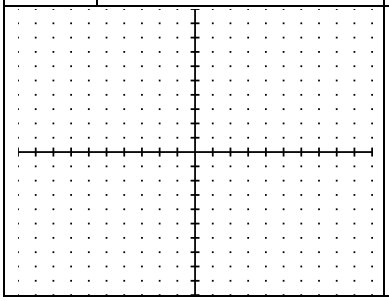
7 $-x + y = 7$, $2x - 2y = -18$



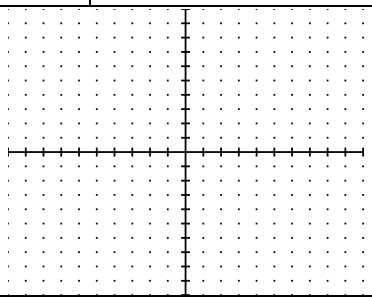
8 $-4x + y = -8$, $-12x + 3y = -24$



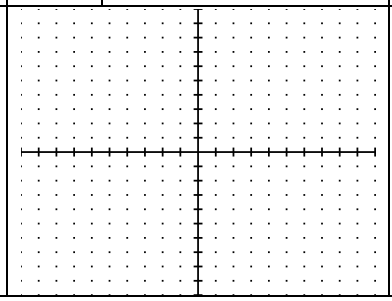
9 $4x + y = -8$, $2x - 2y = 14$



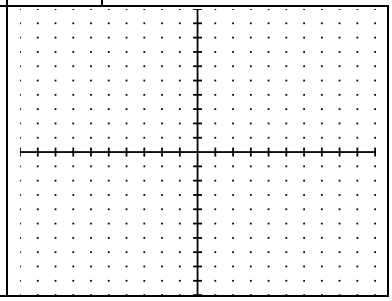
10 $-2x + 4y = 8$, $3x - 6y = 18$



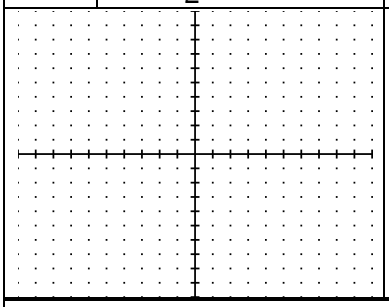
11 $2x + y = 4$, $-x + y = -2$



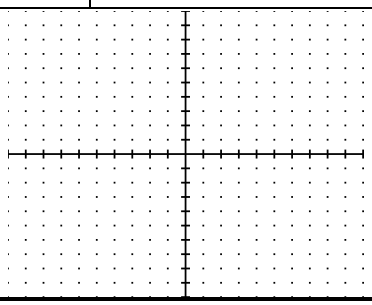
12 $2x + y = 4$, $-4x - 2y = -8$



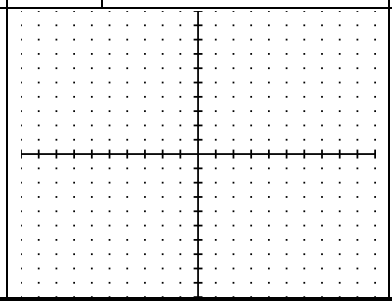
13 $\frac{3}{4}x + \frac{1}{2}y = 5$, $-\frac{3}{2}x - y = 4$



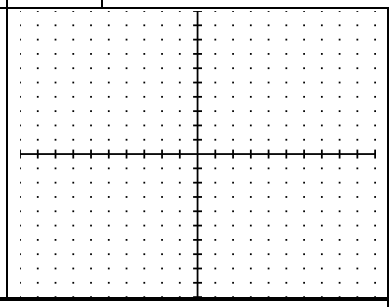
14 $3x - 2y = 8$, $-6x + 4y = -16$



15 $-x + 4y = -20$, $3x - 12y = 48$



16 $6x - 2y = 3$, $-6x + 3y = 6$



17. Without graphing, how could you determine if a **system . . . .**

has **no solution**?

has **infinite solutions**?