



Number of solutions	Slopes and y-intercepts
One solution	Different slopes
No solution	Same slope Different y-intercepts
Infinitely many solutions	Same slope Same y-intercept

EXAMPLE 3 Without solving the linear system, tell whether the linear system has one solution, no solution or infinitely many solutions.

a) 5x + y = -2	b) 6x + 2y = 3	c) 2x + 3y = -9
-10x - 2y = 4	6x + 2y = -5	x - 2y = 6

EXAMPLE 4 An artist wants to sell prints of her paintings. She orders a set of prints for each of two of her paintings. Each set contains regular prints and glossy prints, as shown in the table. Find the cost of one glossy print.

a) Write a system of equations.	Regular	Glossy	Cost
	45	30	\$465
	15	10	\$155

b) Solve.