

Assignment #2 Math 135

④ Solve each system of equations:

① $\begin{cases} y = 2x - 1 \\ y = -3x + 49 \end{cases}$

⑤ Explain the steps used on graphing calculator in order to solve problem #1 by graphing.

② $\begin{cases} y = 2x - 3 \\ 2x + 2y = 24 \end{cases}$

⑥ What would happen if two lines were parallel? (How many solutions would that system have?)

③ $\begin{cases} 3x - 4y = 22 \\ 2x + 4y = 13 \end{cases}$

* Solve each quadratic equation:

④ $\begin{cases} 3x - 2y = 18 \\ 2x + 3y = -1 \end{cases}$

⑦ $x^2 + 5x + 6 = 0$

⑧ $x^2 - 3x + 2 = 0$

⑨ $2x^2 + 5x - 3 = 0$

⑪ Solve using the quadratic formula

⑩ $6x^2 + 8x - 10 = 3x - 4$

$4x^2 + 4x - 3 = 0$

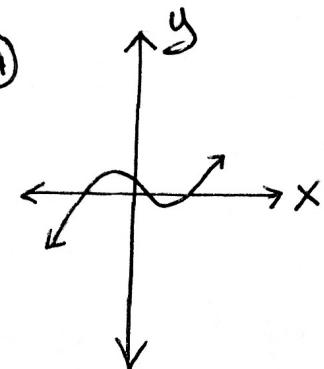
* State if each relation is a function based on the table / graph.

⑫

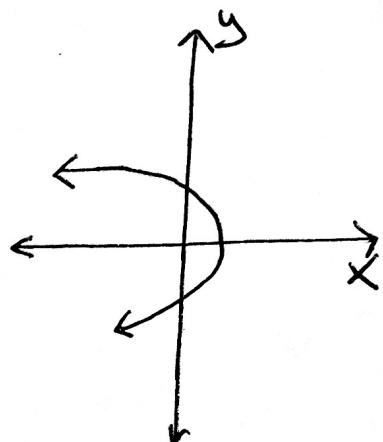
x	y
1	2
2	3
3	2
4	3
5	2
6	3

⑬ $\{(1, 4), (2, 3), (-1, 5), (2, 6), (7, 9)\}$

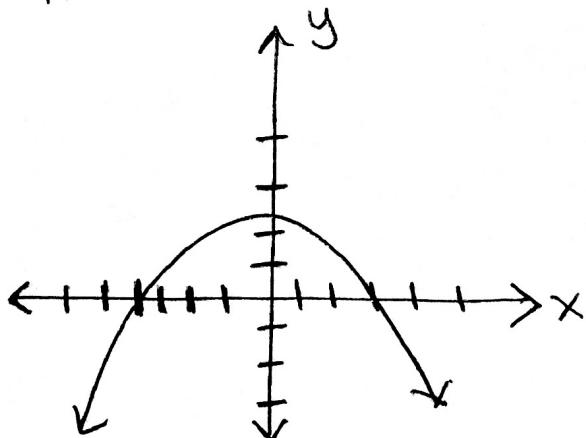
⑭



⑮



⑯ Based on the graph shown below what are the approximate zeros of function?



★ Bonus: If the solutions to a quadratic equation are $x = -3$ and $x = 5$, then what was one possible equation that gives those two solutions.