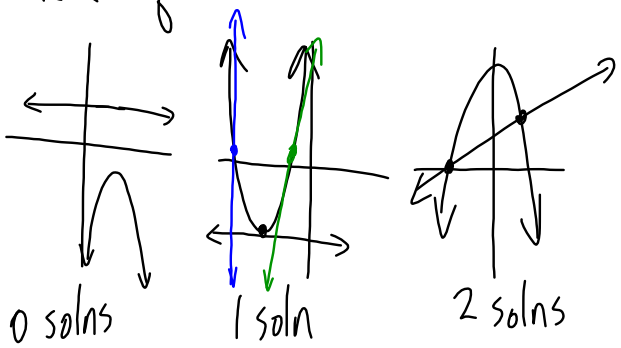
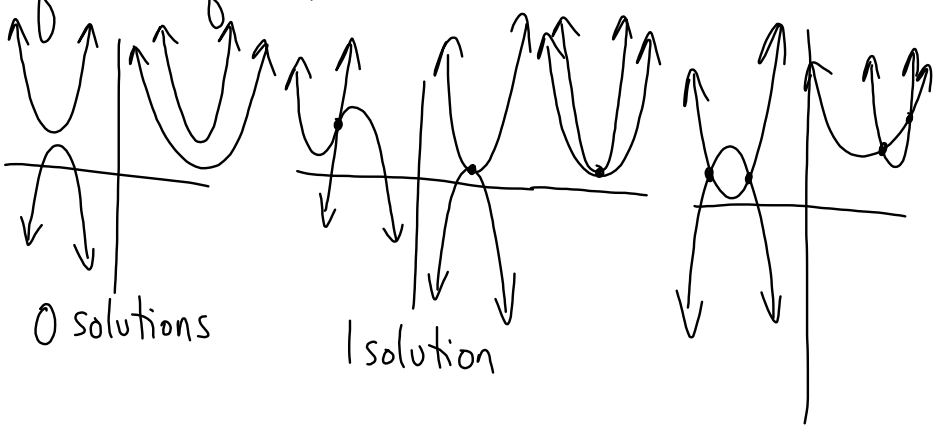
8.1 Solving Systems of Equations Graphically

A solution to a system satisfies both equations in the system. Therefore, it is on the graph of both equations, so it is where the graphs intersect.

linear-quadratic:



quad-quad:



ex) Solve ① $x-y+1=0 \rightarrow y=x+1$

② $x^2-6x+y+3=0 \rightarrow y=-x^2+6x-3$

graphically. $(1,2)$ & $(4,5)$

ex) Solve ① $2x^2 + 16x + y = -26$
② $x^2 + 8x - y = -19$ graphically.

① $y = -2x^2 - 16x - 26$

② $y = x^2 + 8x + 19$

$(-3, 4)$ & $(-5, 4)$

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#2-5(practice) #6-8(apply), 9*, 12*