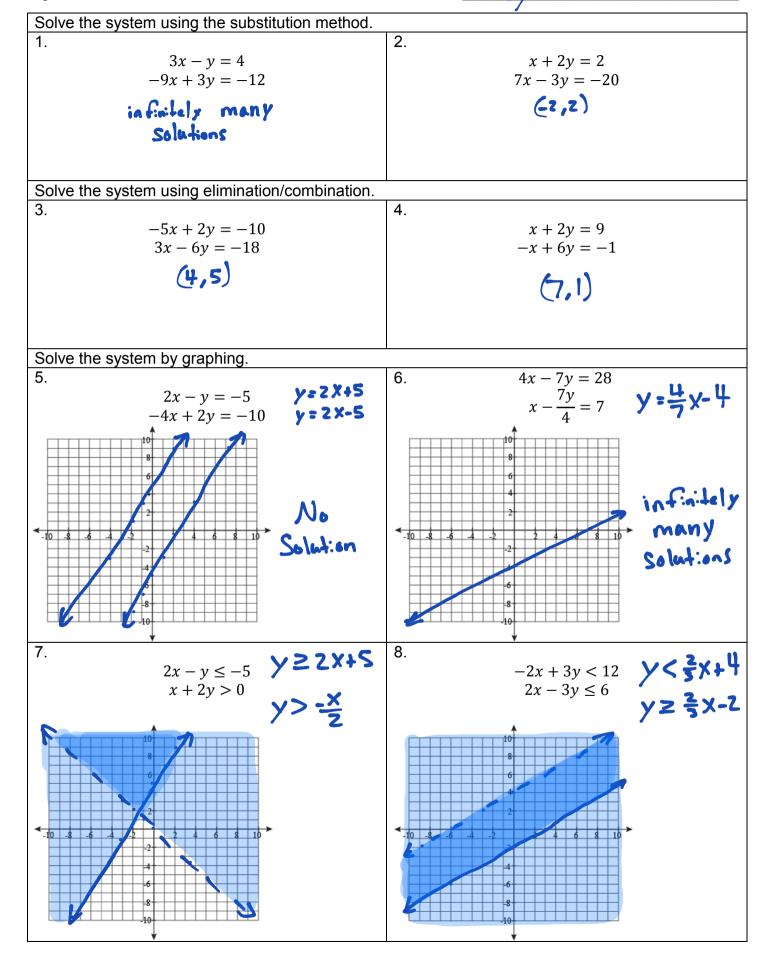
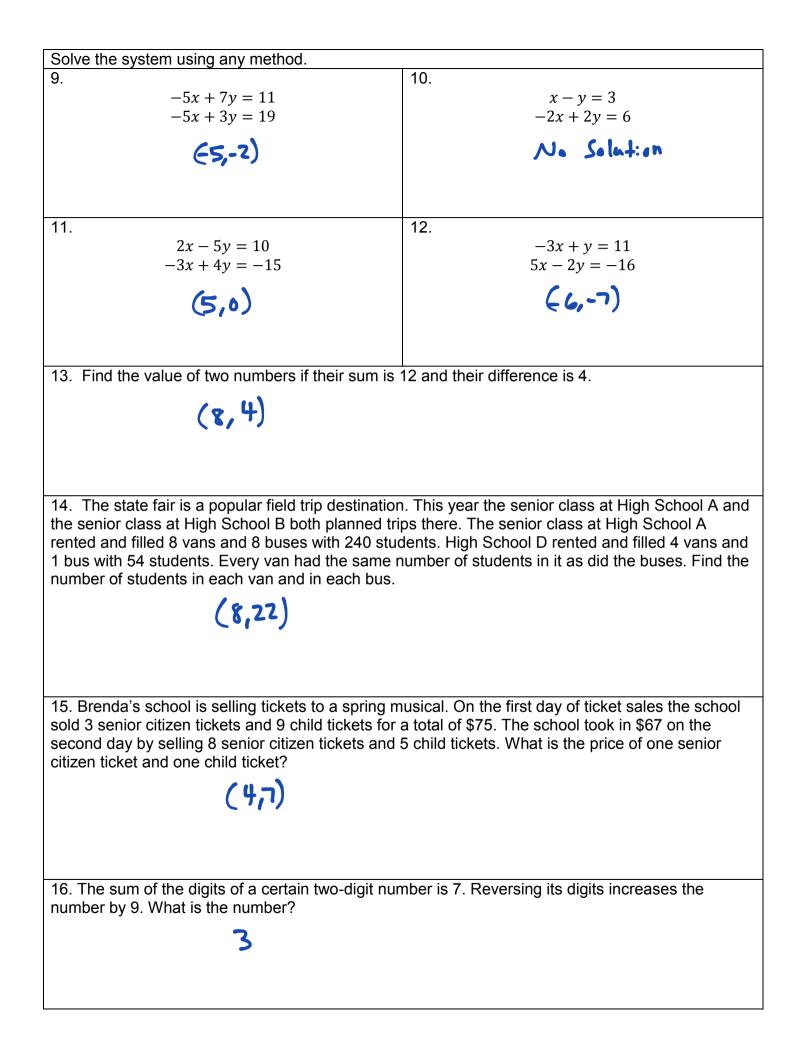
Algebra II Unit 1 Review

Name: Key





17. Daniel's grandfather often complains about how he used to be able to buy a huge lunch of 3 hamburgers and 2 fish sandwiches for one \$7.35. Write a constraint equation for the model.

18. Two people rent a moving truck from the same company. The moving company charges per day, with additional charges for each mile. The first person pays \$1,845 to move 2,060 miles over 5 days, and the second person pays \$840 to move 880 miles over 3 days. Write two equations that would represent the constraints in this situation.

19. Jamie is looking for loose coins in his couch to purchase a pack of chewing gum for \$1.25. He found 10 dimes and quarters. Write a system of equations to determine home many dimes and quarters he must find to have at least \$1.25. How many dimes and quarters must he find?

20. It is Lindsey's turn to provide snacks for her troops next meeting. She is planning to purchase bags of fruit for \$1 each. She only has \$20 to spend.

- a. What inequality could be used to determine the combination of purchases needed?
- b. Explain two possible combinations of popcorn and fruit purchases given the budget of \$20.