**Instructions**: Show all work to earn full credit on the following exercises. You MAY use any handouts, notes, or homework you have completed prior to the quiz, but must work alone.

1. [5pts] Solve the following system of equations (using the method of your choice) and explain whether it is **consistent**, **dependent**, or **inconsistent**.



1. An arcade uses 3 different colored tokens for their game machines.  For $20 you can purchase any of the following mixtures of tokens:  16 gold, 6 silver, and 8 bronze; OR, 12 gold, 15 silver, and 2 bronze; OR, 2 gold, 21 silver, and 9 bronze.
   1. [3pts] Write out the system of linear equations that represents the information about the arcade tokens.
   2. [4pts] Solve the system of equations. Then, list the monetary value of the tokens using full sentences.
2. [8pts] Find the approximate solutions to the following system of equations by **graphing**.



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| Sketch of Graph: | List of Solutions  (Round to 2 decimal places): |
|  |
| Viewing Window: |