

Name _____

Date _____

System Solutions

- (1) Decide whether each system has exactly one solution, infinitely many solutions, or no solutions.

$$\left\{ \begin{array}{l} y = \frac{2}{3}x + 1 \\ y = \frac{2}{3}x + 2 \end{array} \right\} \quad \left\{ \begin{array}{l} d = 100 - 4t \\ d = 3.5 + t \end{array} \right\} \quad \left\{ \begin{array}{l} \frac{1}{8}Q + \frac{3}{8}R = -1 \\ Q + 3R = -8 \end{array} \right\}$$

- (2) For one system, justify your decision to your classmates in two ways:
- (a) drawing graphs of solutions;
 - (b) algebraically.