

26. linear = constant rate + straight line graph.
non-linear = non-constant rate + curved graph.

27. Systems of equations:

* solutions [make all equations true]

- ① One solution (pt. of intersection on graph)
- ② NO solution (parallel lines)
- ③ infinite solutions (same line)

28. $55 \geq 4x + 10y$

x = bags of chips
 y = cases of soda

29. $x - y > 7$

$$2x + 3y \leq -1$$

pt: $(1, -2)$

$$1 - (-2) > 7$$

$$3 > 7 \quad \text{x not true}$$

$(1, -2)$ Not a solution to the system

30. $(3x - y = 5) \times 4$

$$-2x + 4y = -2$$

$$\frac{12x - 4y = 20}{-2x + 4y = -2}$$

$$\hline 10x = 18$$

$$10x = 18$$

$$x = 9/5$$

$$3\left(\frac{9}{5}\right) - y = 5$$

$$\frac{27}{5} - y = 5$$

$$y = 2/5$$

$$5 - \frac{27}{5} = \frac{25}{5} - \frac{27}{5}$$

$$= \frac{-2}{5}$$

$(9/5, 2/5)$