

went over how to do 4, 7 + 10 on p. 157

④ $(a+b+c = -3) \times 2$

$$\begin{array}{r} 3b - c = 4 \\ 2a - b - 2c = -5 \\ -2a - 2b - 2c = +6 \end{array}$$

$$-3b - 4c = 1$$

$$\begin{array}{r} 3b - c = 4 \\ -3b - 4c = 1 \\ \hline -5c = 5 \\ -5 \quad -5 \\ \hline c = -1 \end{array}$$

$$3b - (-1) = 4$$

$$3b + 1 = 4$$

$$\frac{3b}{3} = \frac{3}{3}$$

$$b = 1$$

$$a + 1 + (-1) = -3$$

$$a = -3$$

$$(-3, 1, -1)$$

⑦ $\begin{array}{r} -2x + y + 2z = 3 \\ 2x + y + 3z = 7 \\ -x - 2y + z = 10 \end{array}$

$$\begin{array}{r} -2x - 2y - 4z = -6 \\ 2x + y + 3z = 7 \\ \hline -1(-y - 1z = 1) \end{array}$$

$$-1y + 3z = 13$$

$$1y + 1z = -1$$

$$-1y + 3(3) = 13$$

$$-1y + 9 = 13$$

$$(1, -4, 3)$$

$$\begin{array}{r} 4z = 12 \\ 4 \quad 4 \\ z = 3 \end{array}$$

$$2x + -4 + 3(3) = 7$$

$$2x + -4 + 9 = 7$$

$$\begin{array}{r} 2x + 5 = 7 \\ -5 \quad -5 \end{array}$$

$$x = 1$$

$$-1y = 4$$

$$y = -4$$

$$\frac{2x}{2} = \frac{2}{2}$$

$$(10) \quad x + 2y + 3z = 6$$

$$y + 2z = 0$$

$$z = 2$$

$$y + 2(2) = 0$$
$$y + 4 = 0$$
$$-4 \quad -4$$

$$y = -4$$

$$x + 2(-4) + 3(2) = 6$$

$$x - 8 + 6 = 6$$

$$x - 2 = 6$$
$$+ 2 \quad + 2$$

$$x = 8$$

$$(8, -4, 2)$$

Need to know for test

(2) dependent, inconsistent, independent

(3.1) - put in $y = mx + b$, compare slopes + y-intercepts

(2) solve by any method (sub./elimination/
graphing)

1 - have to use substitution

2 - have to use elimination

1 - solve by graphing

Systems w/ 3 variables

- 1 triangular form (#10)
- 1 like #7 on HW
- 1 multiple choice
- 1 word problem (write 3 eqs) with 3 variables

1 like #8 and #10 on p. 164

1 like #12 + #13 on p. 164

p. 157

$$\begin{cases} \textcircled{\#21} & N + D + Q = 75 & \text{(total coins)} \\ & .05N + .10D + .25Q = 7.25 & \text{(total value)} \\ & 5N = D \end{cases}$$

p. 164 (1-6, 9, 11, 13, 27, 30 - just write 2 eqs)

* Graph 1, 2, 9, 11, 13