

Test 1

1. a) No Sol b) All Real #'s c)
- $E > 6$
- d)
- $0 < B < 2$
- e)
- $m \leq 6$

2. a) $W = \frac{M+K}{A} - G$ or $\frac{M+K-AG}{A}$ $A \neq 0$

b) $W = \frac{T(C-M)+A}{E}$ $T \neq 0$ and $E \neq 0$

c) $W = \frac{AN+RC}{M-H}$ $M-H \neq 0$ OR $W = \frac{-RC-AN}{H-M}$ $H-M \neq 0$

d) $W = \frac{H-C}{X-R}$ $X-R \neq 0$ and $W \neq 0$

3. a) $x^2 + 5x + 4$ b) $\frac{5x+20}{x+5}$ c) 18

4. Domain: $x \geq -4$ Range: $y \leq -1, y \geq 1$

5. a) No b) No c) Yes. $y = 7.5x$ $x = 26.67$ when $y = 200$

6. a) $k = 24.25$ tires/worker b) #workers = $49.49 \rightarrow 50$

7. All Real Numbers 8. $x = -24, 25$ 9. $x < -36.6$ or $x > 21.4$

10. $-9.2 \leq x \leq 6.2$

Chapter 3 and Sec 4-7

1. (5,7) 2. No Solution 3. (-6,1) 4. Many Solutions 5. (2,-3,1.5)

6. a. 1 Sol b. Many Sol c. 1 Sol d. No Sol

$x + 2y = 14$ $y + 3 = 2(x - 2)$

7. EQ's: $F + M = 128$ & $F = 2M - 7$ 83 females and 45 males

8. EQ's: $2G + 5BG = 8.40$ & $3G + 8BG = 13.23$

Gulp = \$1.05 each Big Gulp = 1.26 each