

# General Semester 1 Exam Review

- ①  $-3x(5x+7)$   
 ②  $-4(-2x^2-3x+4)?$   
 better  $\leftarrow 4(2x^2+3x-4)$

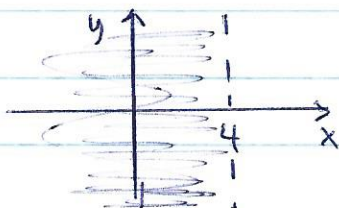
- ③  $(x-2)(x-4)$   
 ④  $(5x+3)(x-5)$   
 ⑤  $(x+6)(x+8)$   
 ⑥  $(x-9)(x+7)$   
 ⑦  $(3x+5)(x+7)$   
 ⑧  $(3x+4)(3x-4)$

- ⑨ \$8  
 ⑩ 32  
 ⑪ -5  
 ⑫  $Q = \frac{V}{T}$   
 ⑬ 8  
 ⑭ 3,817.04  
 ⑮ III  
 ⑯ -3  
 ⑰ 24.2 ft  
 ⑱  $-\frac{9}{4}$   
 ⑲  $-2\frac{1}{2}$   
 ⑳ 2

㉑  $x=0$  or  $x=-2\frac{2}{3}$

㉒ -4, -14

㉓  $x < 4$



㉔  $d \leq -8$  or  $d \geq 4$



㉕  $-7 < x < 2$



㉖  $-27u^6r^{18}t^{12}$

㉗  $8^3x^3y^4$

㉘  $\frac{y^3}{x^{18}}$

㉙ 8

㉚ -55

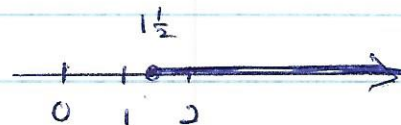
㉛ -1

㉜ 32

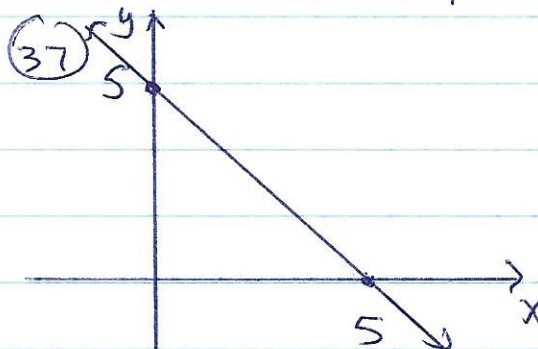
㉝  $19y^{-9}$

㉞  $t = \frac{3}{5r^2}$

㉟  $r \geq 1\frac{1}{2}$



㊱  $k \geq -4$



㊲ 4

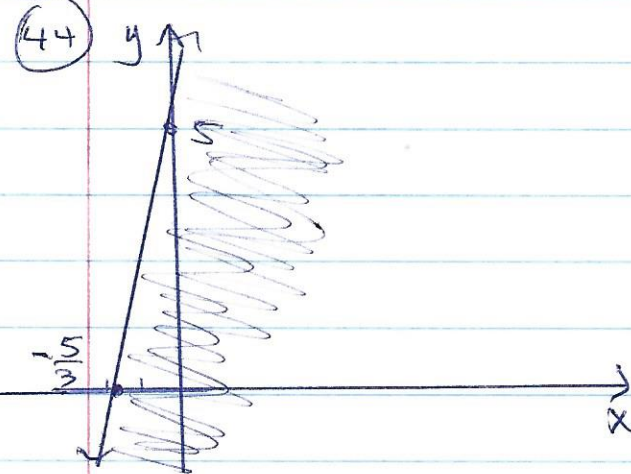
㊳  $8x + y = -18$

㊴  $-\frac{1}{2}$

(41) slope is undefined

(42)  $y = \frac{4}{5}x + \frac{22}{5}$

(43)  $x = -7$



(45) Graph. (3,1) is the point of intersection of the 2 lines.

(46) Graph. (-5,-4) is the point of intersection of the 2 lines.

(47) Graph. (2,0) is the point of intersection of the 2 lines.

(48) a)  $\begin{cases} c = 3.00d + 32 \\ c = 3.25d + 30.5 \end{cases}$ ; b) 6

(49) independent

(50) inconsistent

(51) (0, -5)

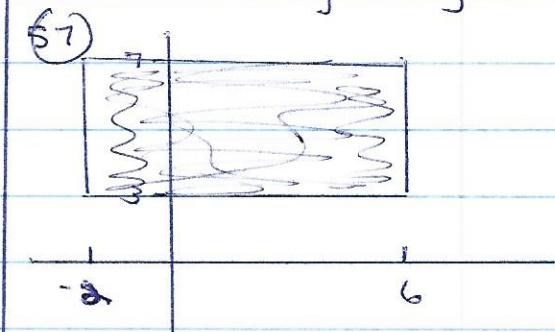
(52) length = 39.4 cm; width = 7.9 cm

(53) (5, 3)

(54) (0, -2)

(55) no solution

(56) infinitely many solutions



(58) Graph. inequalities

(59) Graph inequalities

(60) (0,0), (0,2), (2,0), (4,4)  
Maximum of 8 at (2,0)

(58), (59) we can do together in class as needed.