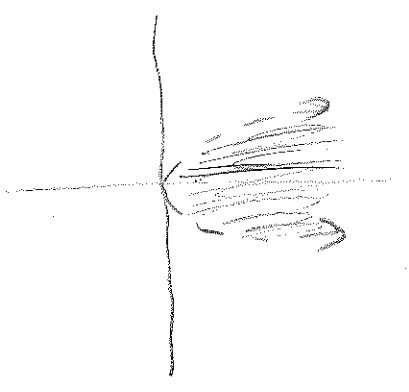
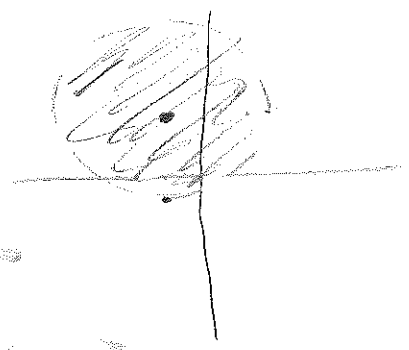


PS 98 # 2, 11, 43, 46, 57, 58, 59, 62, 63, 72

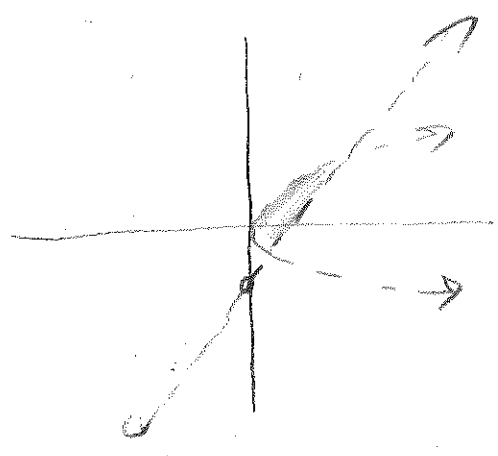
②  $y^2 - x < 0$   
 $y^2 < x$   
 $y < \pm \sqrt{x}$



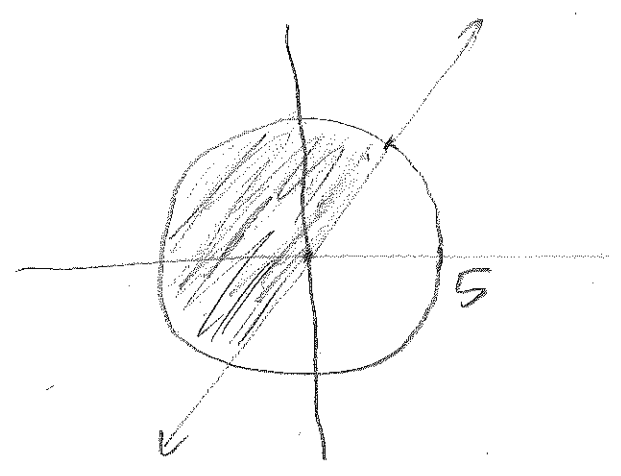
⑪  $(x+1)^2 + (y-2)^2 < 9$   
 circle centered @  $(-1, 2)$   
 w/ radius = 3

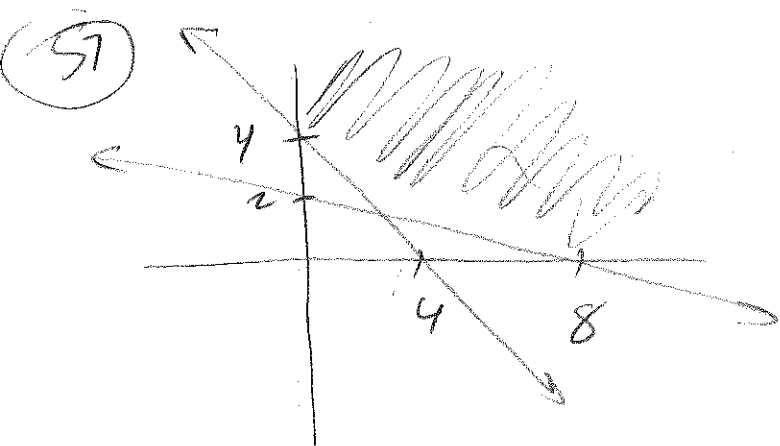


④③  $x > y^2 \rightarrow y < \pm \sqrt{x}$   
 $x < y + 2 \rightarrow y > x - 2$



④⑥  $x^2 + y^2 \leq 25$   
 $4x - 3y \leq 0$   
 $3y \geq 4x$   
 $y \geq 4/3 x$



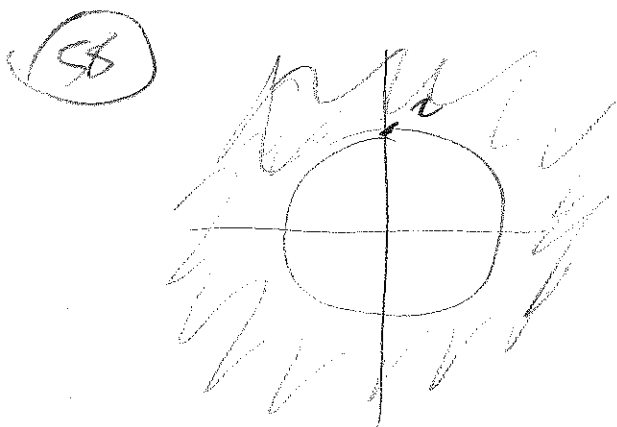


$$y \geq -x + 4$$

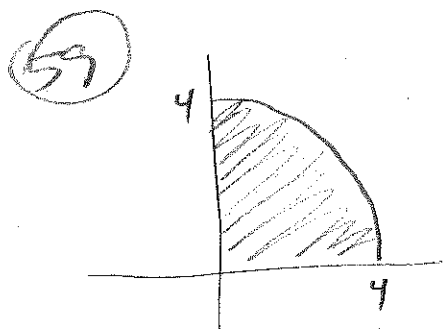
$$y \geq -\frac{1}{4}x + 2$$

$$x \geq 0$$

$$y \geq 0$$



$$x^2 + y^2 \geq 16$$

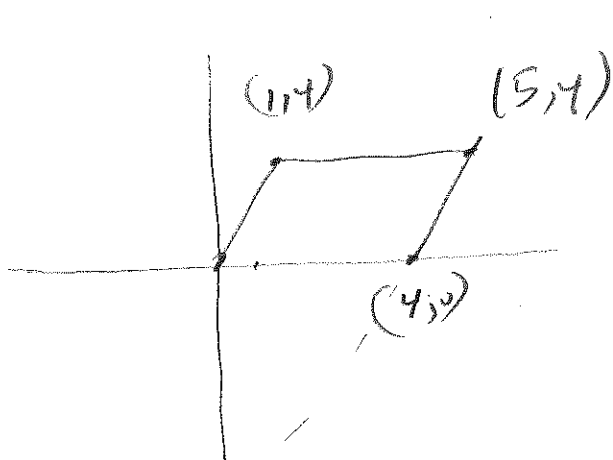


$$x^2 + y^2 \leq 16$$

$$x \geq 0$$

$$y \geq 0$$

(62)  $\square$   $(0,0), (4,0), (5,4), (1,4)$



$$y \geq 0$$

$$y \leq 4x$$

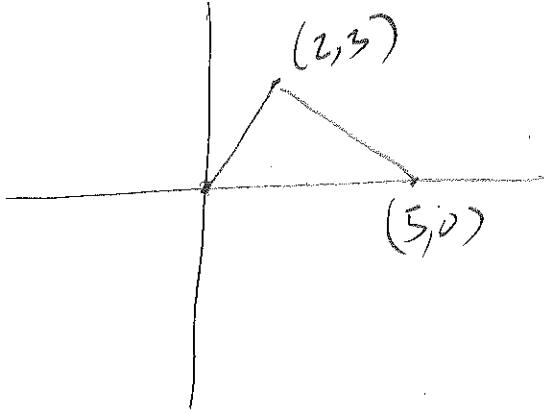
$$y \geq 4x - 16$$

$$m = 4$$

$$0 = 4(4) + b$$

$$-16 = b$$

63  $\Delta$  w vertices  $(0,0), (5,0), (2,3)$



$$\begin{aligned} y &\geq 0 \\ y &\leq \left(\frac{3}{2}\right)x \\ y &\leq -x + 5 \end{aligned}$$

$$m = \frac{-3}{2} = -1.5$$

$$0 = -5 + b \\ 5 = b$$

72 R - # reserved seat  
G - # GA seat

$$\begin{aligned} R + G &\leq 3,000 \\ 30R + 20G &\geq 95,000 \\ R &\geq 0 \\ G &\geq 0 \\ R &\leq 2,000 \end{aligned}$$

