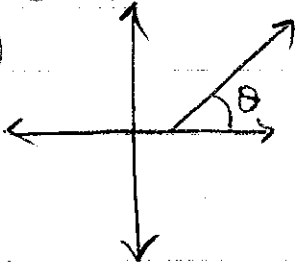


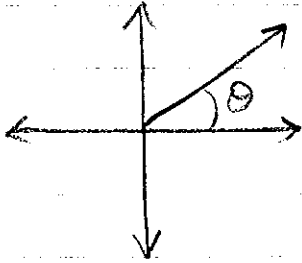
p. 83 part 1 #1-7

1. a)



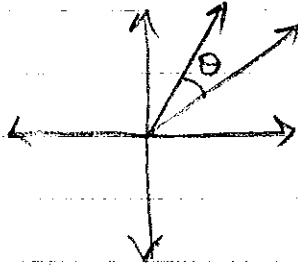
Not standard position - the vertex of the angle is not at $(0,0)$ on the graph.

b)



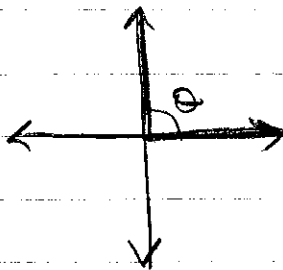
Standard position - vertex of angle at $(0,0)$ and initial arm on the positive x-axis.

c)



Not standard position - initial arm not on positive x-axis.

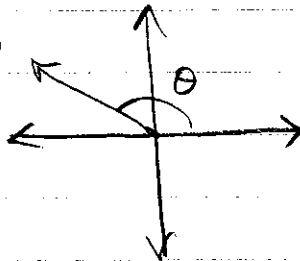
d)



Standard position

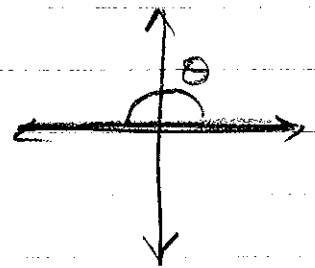
2. a) 150°

F)



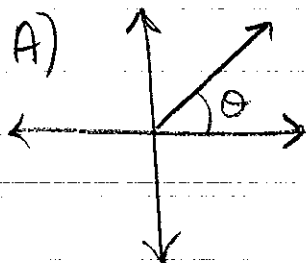
b) 180°

c)



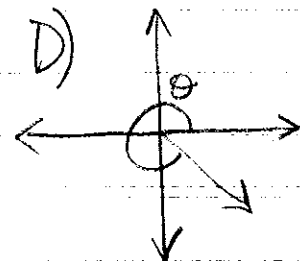
d) 45°

A)



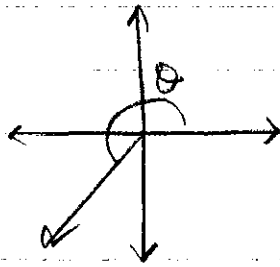
d) 320°

D)

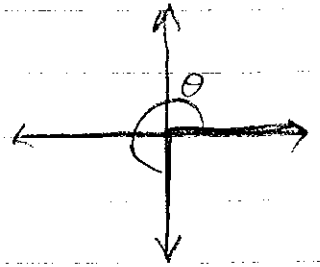


p. 83 cont.

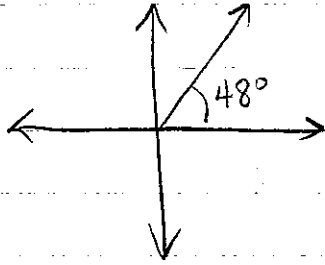
2. e) 215° B)



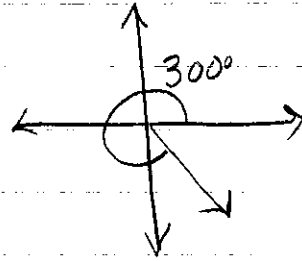
f) 270° E)



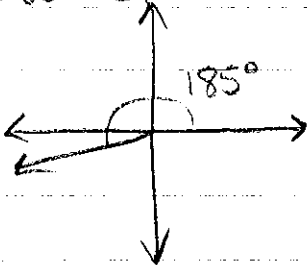
3. a) 48° Quadrant I



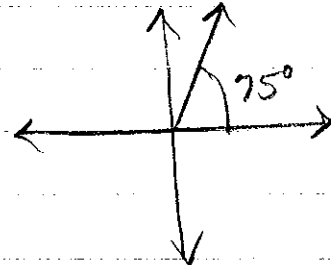
b) 300° Quadrant IV



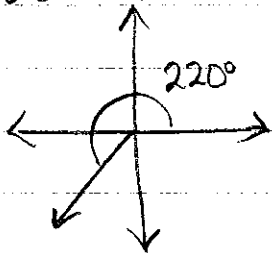
c) 185° Quadrant III



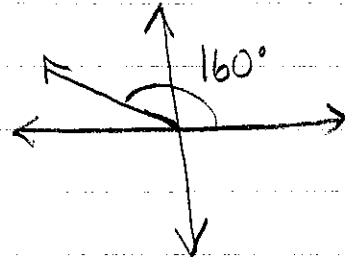
d) 75° Quadrant I



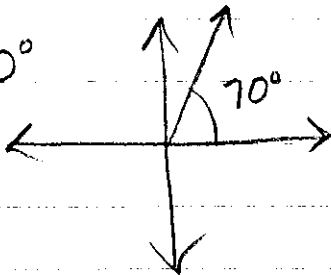
e) 220° Quadrant III



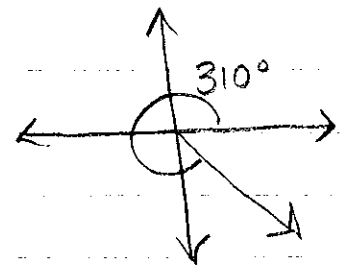
f) 160° Quadrant II



4. a) 70°

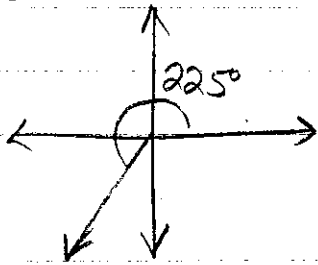


b) 310°

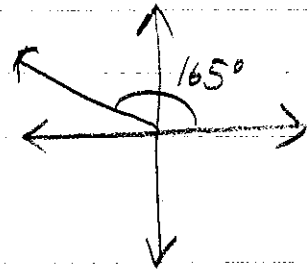


p. 83 cont.

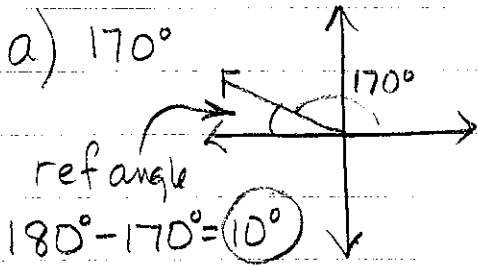
4. c) 225°



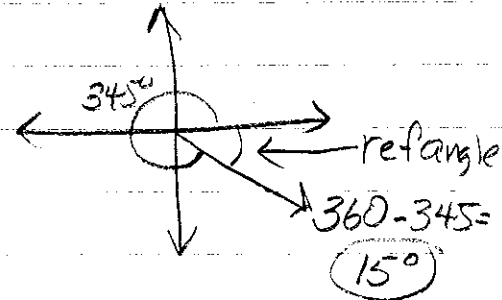
d) 165°



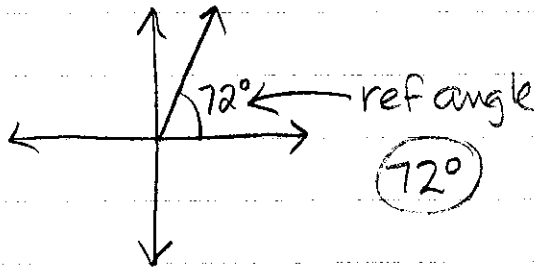
5. a) 170°



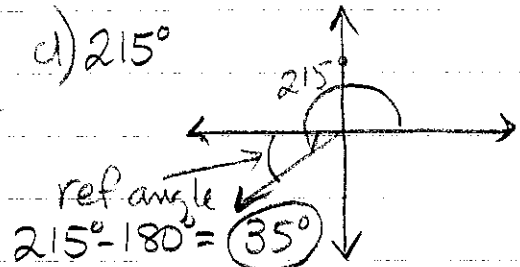
b) 345°



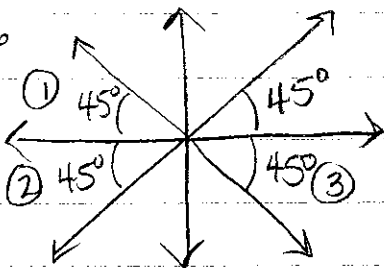
c) 72°



d) 215°



b. a) 45°

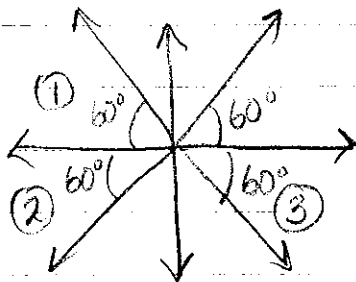


① $180^\circ - 45^\circ = 135^\circ$

② $180^\circ + 45^\circ = 225^\circ$

③ $360^\circ - 45^\circ = 315^\circ$

b) 60°

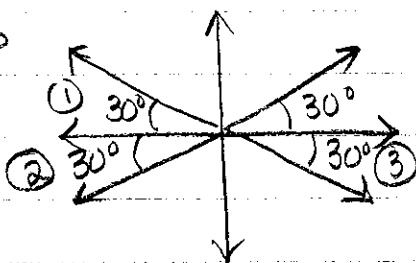


① $180^\circ - 60^\circ = 120^\circ$

② $180^\circ + 60^\circ = 240^\circ$

③ $360^\circ - 60^\circ = 300^\circ$

c) 30°

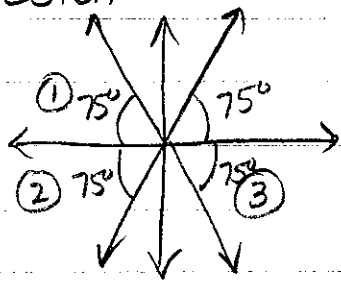


① $180^\circ - 30^\circ = 150^\circ$

② $180^\circ + 30^\circ = 210^\circ$

③ $360^\circ - 30^\circ = 330^\circ$

p. 83 cont.
6. d) 75°



- ① $180^\circ - 75^\circ = 105^\circ$
- ② $180^\circ + 75^\circ = 255^\circ$
- ③ $360^\circ - 75^\circ = 285^\circ$

7.	Ref. angle	Quadrant	Angle in Stand Pos.
a)	72°	IV	288°
b)	56°	II	124°
c)	18°	III	198°
d)	35°	IV	325°

Draw diagrams - they always help!

