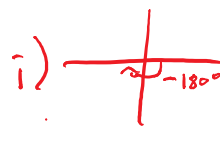
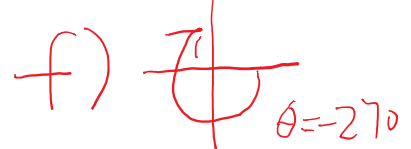


HW 6.6

April 1, 2015 7:45 PM

By Jeffrey chen, Peng



2 a) $190 - 180 = 10$

b) $180 - 170 = 10$

c) $180 - 144 = 36$

d) $360 - 287 = 73$

e) $180 - |-140| = 40$

f) $|-199| - 180 = 19$

g) $|-217| - 180 = 37^\circ$

h) $180 - 167 = 13^\circ$

i) $|-213| - 180 = 33^\circ$

j) $455 - 360 = 95^\circ$

$180 - 95 = 85^\circ$

k) $1080 \div 360 = 5$

$\therefore \text{Ans. } 0$

l) $-2000 + 1800 = -200$

$|-200| - 180 = 20^\circ$

3. a) Positive

b) Negative

c) Negative

d) Negative

e) Positive

f) Positive

g) P

h) neither (0) i) N

j) P

k) N

l) N

m) N

n) N

o) N

4 a) 3, 4

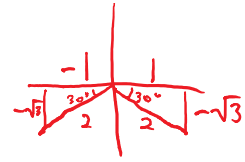
b) 1, 4

c) 2, 4

d) 1, 2 e) 2, 3 f) 2, 4
 g) 2, 4 h) 3, 4 i) 2, 4

5 a) Quadrant 3 and 4

$$180^\circ + 30^\circ = 210^\circ \quad 360^\circ - 30^\circ = 330^\circ$$



b) Quadrant 1 and 4

Ans 30, 330

c) Q 2, 4 Ans 319.11, 138.1

d) Q 1, 2 Ans 45, 135

e) Q 2, 3 Ans 135, 225

f) Q 2, 4 Ans 300, 120

g) Q 2, 4 Ans 315, 135

h) Q 3, 4 Ans 315, 225

i) Q 2, 4 Ans 330, 150

6. Quadrant 1

7. Quadrant 4

8. Quadrant 3

9. Quadrant 2

10 $\sin^{-1} \frac{3}{5} = 36.87, 143.13$

$\cos 36.87 = 0.8$ $\cos 143.13 = -0.8$

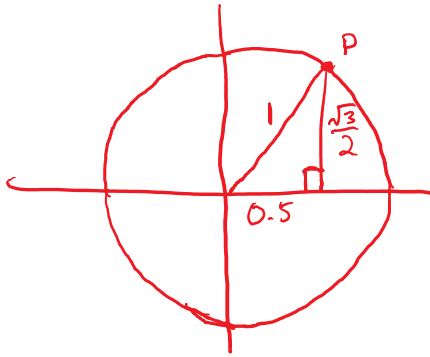
11 $\cos^{-1} \frac{\sqrt{3}}{7} = 75.67, 284.33$

$\sin 75.67 = 0.9689$ $\sin 284.33 = -0.9689$

12. $\tan^{-1} \frac{-\sqrt{2}}{3} = -25.24, 154.76$

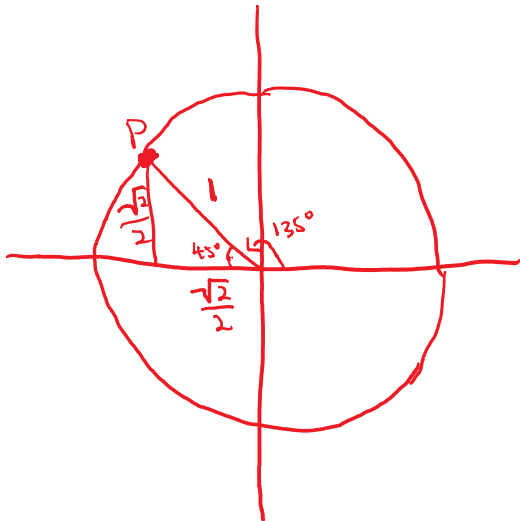
$$\sin -25.24 = \boxed{-0.43} \quad \sin 154.76 = \boxed{0.43}$$

13.



$$P\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$$

14.



$$P\left(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$$