

Trig Pre/Calc Ch 4 Study Guide Answers Final Exam

① -1 ② -2 ③ $\frac{2\sqrt{3}}{3}$ ④ $-\sqrt{3}/3$ ⑤ -1 ⑥ 1

⑦ $\sqrt{2}/2$ ⑧ $\frac{1}{2}$ ⑨ $230^\circ 8' 24''$ ⑩ $\cot \theta = \sqrt{15}/7$

⑪ $x \approx .88$ ⑫ $A = \frac{13\pi}{60} \text{ ft}$ ⑬ 225° ⑭ $\frac{43\pi}{36}$

⑮ $\theta = 60^\circ$ ⑯ a) $\theta = \frac{11\pi}{6}$ ⑰ $y = \pi/6$ ⑱ $y = \pi/2$ ⑳ $y = -\frac{\pi}{3}$
 b) $\theta = 3\pi/4$

$\rho = 2\pi/\pi_2 = 4$

⑪

θ	y
0	0
1	-2
2	0
3	2
4	0

$\rho = \frac{2\pi}{6} = \pi/3$

⑫

θ	y
0	3
$\pi/2$	0
$\pi/6$	-3
$\pi/4$	0
$\pi/3$	3

$\rho = \pi/\pi_3 = 3\pi$

⑬

θ	y
0	0
$3\pi/2$	undefined
3π	0
$9\pi/2$	undefined
6π	0

"Guide Pts"
 $(-3\pi/4, -4)$
 $(3\pi/4, 4)$
 $(9\pi/4, -4)$
 $(15\pi/4, 4)$
 $(21\pi/4, -4)$

⑭ $\rho = \pi/2$

⑭

θ	y
0	undefined
$\pi/4$	0
$\pi/2$	undefined
$3\pi/4$	0
π	undefined

"Guide Pts"
 $(-\pi/8, -1/2)$
 $(\pi/8, 1/2)$
 $(3\pi/8, -1/2)$
 $(5\pi/8, 1/2)$
 $(7\pi/8, -1/2)$

#11 is the only problem you actually need a scientific calculator for