

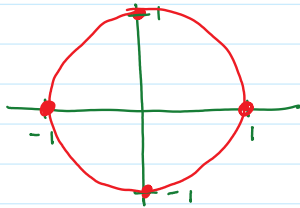
Day 3 HW

Wednesday, February 25, 2015 9:13 AM

p. 530: 6-16 even, 23, 24, ~~33-36~~

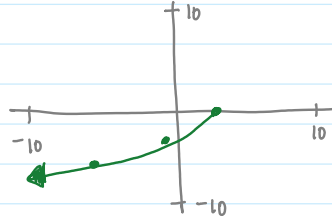
⑥

t	0	$\pi/2$	π	$3\pi/2$	2π
x	1	0	-1	0	1
y	0	1	0	-1	0



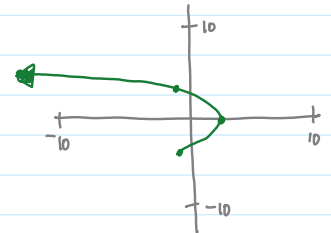
⑧

t	-10	-8	-6	-4	-2	0
x	-97	-61	-33	-13	1	3
y	-20	-16	-12	-8	-4	0



⑩

t	-2	0	2	4
x	-1	3	-1	-13
y	-4	0	4	8



⑫ $x = 2 - 3t \Rightarrow -3t = x - 2$
 $y = 5 + t$
 $t = -\frac{1}{3}x + \frac{2}{3}$

$y = 5 + (-\frac{1}{3}x + \frac{2}{3})$
 $y = -\frac{1}{3}x + \frac{17}{3}$ Line...

⑭ $x = 5 - 3t \Rightarrow -3t = x - 5$
 $y = 2 + t$
 $t = \frac{x - 5}{-3}$
 $t = -\frac{1}{3}x + \frac{5}{3}$

$y = 2 + (-\frac{1}{3}x + \frac{5}{3})$
 $y = -\frac{1}{3}x + \frac{11}{3}$
 Line segment
 w/ endpoints @
 (8, 1) & (-4, 5)

t	-1	3
x	8	-4
y	1	5

⑯ $x = t$
 $y = t^2 - 3$
 $y = x^2 - 3$
 parabola
 w/ vertex @ (0, -3)

⑳ $x = 5\cos t$
 $y = 5\sin t$
 $x^2 + y^2 = (5\cos t)^2 + (5\sin t)^2$
 $x^2 + y^2 = 25\cos^2 t + 25\sin^2 t$
 $x^2 + y^2 = 25(\cos^2 t + \sin^2 t)$
 $x^2 + y^2 = 25$
 circle w/ radius 5

㉑ $x = 4\cos t$
 $y = 4\sin t$
 $x^2 + y^2 = (4\cos t)^2 + (4\sin t)^2$
 $x^2 + y^2 = 16\cos^2 t + 16\sin^2 t$
 $x^2 + y^2 = 16(\cos^2 t + \sin^2 t)$
 $x^2 + y^2 = 16$
 circle w/ radius 4