

Honors Math Analysis – Sullivan & Sullivan

10.7 & 11.6

Section	Activities/Resources	Assignment
10.7	Plane Curves and Parametric Equations	1-6
10.7		7, 8, 10, 13, 15, 19, 29
10.7		31-46 by 3s
10.7		32-44 by 3s
11.6	Partial Fraction Decomposition	9, 13, 15, 19, 21, 27
11.6		11, 17, 23, 25, 29, 31
11.6		33, 35, 37, 39, 41
Review		p. 707 63-65 p. 806 57, 60, 61, 66
12.1	Quiz 10.7 & 11.6	21, 25, 27, 29, 35, 39, 44, 46, 49, 51, 56

10.7

2. $y = 2x + 10$

4. $y = 2x^2$

6. $y = x - 8$

8. $y = (x + 4)^2$

10. $y = \frac{1}{x}$

34. $x = t, y = -2t^2 + 1$

$x = t - 1, y = -2t^2 + 4t - 1$

32. $x = t, y = -8t + 3$

$x = t + 1, y = -8t - 5$

38. $x = \sqrt{t}, y = t$

$x = t, y = t^2$

40. $x = t, y = t^4 + 1$

$x = t^2, y = t^2 + 1$

44. $x = -2\sin \omega t, y = 3\cos \omega t$ $\frac{2\pi}{\omega} = 1 \rightarrow \omega = 2\pi$

$x = -2\sin 2\pi t, y = 3\cos 2\pi t$ $0 \leq t \leq 1$

$x = 2\cos \omega t, y = 3\sin \omega t$

46. $\frac{2\pi}{\omega} = 3 \rightarrow \omega = \frac{2\pi}{3}$

$x = 2\cos \frac{2\pi}{3}t, y = 3\sin \frac{2\pi}{3}t, 0 \leq t \leq 3$

Review

p. 707 64. $x = 2y^2 - 20y + 56$

p. 806 60. $\frac{4}{x-2} + \frac{-2}{(x-2)^2} + \frac{-4}{x-1}$

66. $\frac{2}{x-1} + \frac{-2}{x+1} + \frac{-4}{x^2+4}$