

Honors Math Analysis – Sullivan & Sullivan - Chapter 1 2011

Section	Activities/Resources	Assignment
1.1 & 1.2	<b>Textbook Feature Search</b>	1.1: 40, 46, 59, 60, 70 1.2: 47, 48, 53-56
1.2 & 1.3		1.2: 57, 62, 70-72 1.3: 25, 33, 39, 49, 55, 61, 76, 83, 89, 93, 96
1.4 & 1.6	<b>1.4 Applications</b>	1.4: 44, 48, 49, 57 1.6: 43, 49, 55, 61, 89, 90 1.1 to 1.3 Review worksheet
1.5	<b>Interval Notation warm-up</b> <b>Visualizing Inequalities on the TI</b> <b>Visualizing Inequalities – exit slip I</b>	1-16, 49, 51, 54, 58, 70, 71, 77, 90
1.5 & 1.8	<b>Consider the Cases</b> $\frac{(4x-1)(x+5)}{x-2} \leq 0$ <b>Visualizing Inequalities – exit slip II</b>	1.5: 48, 56, 68, 74 (no calculator), 75 & additional problems on back of <b>Consider the Cases</b> worksheet using number line method 1.8: 19, 23, 27, 29, 44
1.7	Exercises 1-6 orally	15, 19, 21
Review	<b>Quiz 1.4, 1.5, &amp; 1.8</b>	23, 29, 32, 35, 38, 44, 61, 64, 73, 74, 75, 96
Review	p. 89-91 Fill-ins & T/F orally	3, 7, 13, 21, 25, 31, 37, 39, 47, 49, 59, 63, 67, 95
2.1	<b>Test Chapter 1</b>	21-34 & 39-50

1.1 & 1.2

40. 100 square units

46. (-11, -3) or (13, -3)

60.  $(-2\sqrt{3}, 2)$  or  $(2\sqrt{3}, 2)$

70. b)  $\approx 126.5$  ft c)  $\approx 272.0$  ft

48.  $m = -5/2$

1.2 & 1.3

62. y-intercept: (0, 4), x-intercept: (-4, 0), no symmetry

70. y-intercept: none, x-intercept: (-2, 0) and (2, 0), origin symmetry

76.  $x = \frac{a+b}{c}$

96.  $r = \frac{A-P}{Pt}$

1.4 & 1.6

44. 3 feet by 6 feet

48. a) 19 feet by 19 feet b) 9.5 feet by 28.5 feet c) 25.83 feet d) circle

50. approximately 2.13 feet

58. 11.07 cm by 6.07 cm by 3 cm

1.5

2.  $[-1, 5)$

4.  $(-2, 0)$

6.  $(-\infty, 5]$

8.  $(1, \infty)$

10.  $1 < x < 2$

12.  $0 \leq x < 1$

14.  $x \leq 2$

16.  $x > -8$

54.  $(0, 3)$

58.  $\{x \mid x \leq 1\}$  or  $(-\infty, 1]$

70.  $(-\infty, -6]$  or  $[-2, \infty)$

90. 16,000 to 38,000 gallons

1.5 & 1.8

48.  $\{x \mid 1 \leq x \leq 4\}$  or  $[1, 4]$

56.  $\{x \mid x < 11\}$

68.  $\{u \mid -6 \leq u \leq 1\}$  or  $[-6, 1]$

74.  $(-\infty, 1/3)$  or  $(1, \infty)$

Additional problems 1.  $[-3, -1)$  or  $[4, \infty)$

2.  $(-1/2, 3)$

3.  $(-\infty, -1]$  or  $(-1/4, 2/3]$

44.  $y = 2$

Review

44.  $y = -5x + 11$

64. center (-2, 2), radius = 3

74.  $y = 8$  or  $y = -4$

96. b)  $C = 30.1160H - 8.2171$  c) as hydrocarbons increase by 1, carbon monoxide increases by 30.1160 c)  $\approx 11.96$