

# CHAPTER 1 PRELIMINARIES

## 1.1 REAL NUMBERS AND THE REAL LINE

1. Executing long division,  $\frac{1}{3} = 0.\overline{3}$ ,  $\frac{2}{3} = 0.\overline{6}$ ,  $\frac{1}{4} = 0.25$ ,  $\frac{3}{4} = 0.75$ ,  $\frac{1}{5} = 0.2$
2. Executing long division,  $\frac{1}{11} = 0.\overline{09}$ ,  $\frac{2}{11} = 0.\overline{18}$ ,  $\frac{3}{11} = 0.\overline{27}$ ,  $\frac{4}{11} = 0.\overline{36}$ ,  $\frac{5}{11} = 0.\overline{45}$
3. NT = necessarily true, NNT = Not necessarily true. Given:  $2 < x < 6$ .
  - a) NNT. 5 is a counter example.
  - b) NT.  $2 < x < 6 \Rightarrow 2 - 2 < x - 2 < 6 - 2 \Rightarrow 0 < x - 2 < 4$ .
  - c) NT.  $2 < x < 6 \Rightarrow 2/2 < x/2 < 6/2 \Rightarrow 1 < x < 3$ .
  - d) NT.  $2 < x < 6 \Rightarrow 1/2 > 1/x > 1/6 \Rightarrow 1/6 < 1/x < 1/2$ .
  - e) NT.  $2 < x < 6 \Rightarrow 1/2 > 1/x > 1/6 \Rightarrow 1/6 < 1/x < 1/2 \Rightarrow 6(1/6) < 6(1/x) < 6(1/2) \Rightarrow 1 < 6/x < 3$ .
  - f) NT.  $2 < x < 6 \Rightarrow x < 6 \Rightarrow (x - 4) < 2$  and  $2 < x < 6 \Rightarrow x > 2 \Rightarrow -x < -2 \Rightarrow -x + 4 < 2 \Rightarrow -(x - 4) < 2$ .  
The pair of inequalities  $(x - 4) < 2$  and  $-(x - 4) < 2 \Rightarrow |x - 4| < 2$ .
  - g) NT.  $2 < x < 6 \Rightarrow -2 > -x > -6 \Rightarrow -6 < -x < -2$ . But  $-2 < 2$ . So  $-6 < -x < -2 < 2$  or  $-6 < -x < 2$ .
  - h) NT.  $2 < x < 6 \Rightarrow -1(2) > -1(x) < -1(6) \Rightarrow -6 < -x < -2$

4. NT = necessarily true, NNT = Not necessarily true. Given:  $-1 < y - 5 < 1$ .
  - a) NT.  $-1 < y - 5 < 1 \Rightarrow -1 + 5 < y - 5 + 5 < 1 + 5 \Rightarrow 4 < y < 6$ .
  - b) NNT.  $y = 5$  is a counter example. (Actually, never true given that  $4 < y < 6$ )
  - c) NT. From a),  $-1 < y - 5 < 1 \Rightarrow 4 < y < 6 \Rightarrow y > 4$ .
  - d) NT. From a),  $-1 < y - 5 < 1 \Rightarrow 4 < y < 6 \Rightarrow y < 6$ .
  - e) NT.  $-1 < y - 5 < 1 \Rightarrow -1 + 1 < y - 5 + 1 < 1 + 1 \Rightarrow 0 < y - 4 < 2$ .
  - f) NT.  $-1 < y - 5 < 1 \Rightarrow (1/2)(-1 + 5) < (1/2)(y - 5 + 5) < (1/2)(1 + 5) \Rightarrow 2 < y/2 < 3$ .
  - g) NT. From a),  $4 < y < 6 \Rightarrow 1/4 > 1/y > 1/6 \Rightarrow 1/6 < 1/y < 1/4$ .
  - h) NT.  $-1 < y - 5 < 1 \Rightarrow y - 5 > -1 \Rightarrow y > 4 \Rightarrow -y < -4 \Rightarrow -y + 5 < 1 \Rightarrow -(y - 5) < 1$ .  
Also,  $-1 < y - 5 < 1 \Rightarrow y - 5 < 1$ . The pair of inequalities  $-(y - 5) < 1$  and  $(y - 5) < 1 \Rightarrow |y - 5| < 1$ .

5.  $-2x > 4 \Rightarrow x < -2$



6.  $8 - 3x \geq 5 \Rightarrow -3x \geq -3 \Rightarrow x \leq 1$



7.  $5x - 3 \leq 7 - 3x \Rightarrow 8x \leq 10 \Rightarrow x \leq \frac{5}{4}$



8.  $3(2 - x) > 2(3 + x) \Rightarrow 6 - 3x > 6 + 2x$   
 $\Rightarrow 0 > 5x \Rightarrow 0 > x$



9.  $2x - \frac{1}{3} \geq 7x + \frac{1}{3} \Rightarrow -\frac{1}{3} - \frac{1}{3} \geq 5x$   
 $\Rightarrow \frac{1}{3}(-\frac{2}{3}) \geq x$  or  $-\frac{1}{3} \geq x$



10.  $\frac{3x}{4} < \frac{2x-4}{2} \Rightarrow 12 - 2x < 12x - 16$   
 $\Rightarrow 28 < 14x \Rightarrow 2 < x$



# Thomas Finney Calculus Solution Of 11th Edition

**Hussin A.Rothana**



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