

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. $2x - \frac{1}{3} \geq 7x + \frac{1}{6} \Rightarrow -\frac{1}{3} - \frac{1}{6} \geq 5x$
 $\Rightarrow \frac{1}{2}(-\frac{2}{6} - \frac{1}{6}) \geq x$ or $-\frac{1}{2} \geq x$



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



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