

Written assignments
to hand in.

Section 1.7

30, 42, 66

Due Tuesday 10/10

Section 1.8

16, 34, 40

Due Wednesday 10/11

Section 2.1

34, 38, 70

Due Friday 10/13

Section 2.2

38, 52

Due Monday 10/16

Section 1.8

$$(10) |2x-3|=7$$

$$2x-3=7 \quad \text{or} \quad 2x-3=-7$$

$$2x=10$$

$$\boxed{x=5}$$

$$2x=-4$$

$$\boxed{x=-2}$$

Discussion Problems

From the department syllabus
These are not to hand in.

Section 1.7, 1.8

WebAssign

Sections 1.7+1.8

Due Wednesday 10/11, 9pm

Sections 2.1+2.2

Due Monday 10/16, 9pm.

$$(12) |x-4|=-3$$

No solution because

$$|x-4| \geq 0.$$

$$\textcircled{33} \quad |2x-3| \leq 0.4$$

$$|x| < a \text{ means } -a < x < a$$

$$\begin{array}{r} -0.4 \leq 2x-3 \leq 0.4 \\ +3 \quad +3 \quad +3 \end{array}$$

$$\frac{1}{2} (2.6 \leq 2x \leq 3.4)$$

$$\boxed{1.3 \leq x \leq 1.7}$$



$$[1.3, 1.7]$$

$$\textcircled{35} \quad \left| \frac{x-2}{3} \right| < 2$$

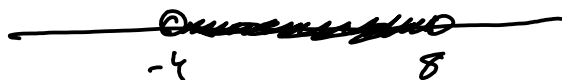
$$\frac{|x-2|}{|3|} < 2$$

$$3 \left(\frac{|x-2|}{3} < 2 \right)$$

$$|x-2| < 6$$

$$\begin{array}{r} -6 < x-2 < 6 \\ +2 \quad +2 \quad +2 \end{array}$$

$$\boxed{-4 < x < 8}$$



$$(-4, 8)$$

like
41

$$8 - |2x - 1| \leq 6$$

$$- \left[-|2x - 1| \leq -2 \right]$$

$$|2x - 1| \geq 2$$

$$2x - 1 \geq 2$$

$$+1 \quad +1$$

$$2x \geq 3$$

$$x \geq \frac{3}{2}$$

or

$$2x - 1 \leq -2$$

$$2x \leq -1$$

$$x \leq -\frac{1}{2}$$



$$\left(-\infty, -\frac{1}{2}\right] \cup \left[\frac{3}{2}, +\infty\right)$$