## Review

October-30-13 12:21 PM

used 2009-03

Determine the solution of the double inequality

-4 \(\perp 2 - 3x \equiv 11\). Graph it, and write in (a) interval notation

(b) as an absolute value

\[
|\frac{1}{2} - \centre| \frac{2}{5}\] radius

olve  $3x^2 + 1 > 25$ .

Fill out a plus/minus table for  $f(x) = -5x(x^2 + 4)(7 - x)(x^2 - 10)$  and use it to state in interval notation when f(x) < 0.

4. Determine where the function

f(x) = (3-0.75x)(2x+12) has a negative rate of

change. (Easily seen from a sketch.)

(b) If f(x) represents displacement at time or find specifical at time x= | sec

Find a Fumily

degree 4, with two distinct double roots, one of them at -5

6	×	1	3	5	7	9	11
	y	26	48	46	20	-30	-104

Charice is painting the lines for her own basketball court. The free throw section will be a rectangle with a semi-circle on top. The length of the rectangle will be 2.25 metres greater than the width. Using 3.14 for  $\pi$ , the area of the court is 31.28 m2. Determine the dimensions of the free throw section. ( $A=\pi r^2$  is the area of a circle)





