Week 1
MATH 34B
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1.5 Solve for x: $\frac{x+4}{8x-1} = \frac{x+8}{8x-7}$

1.10 What is the equation of the line going through the two points $(2, 8)$ and $(3, 2)$?

1.12 The perimeter of a rectangle is $26cm$. If the area of the rectangle is $40cm^2$ find the length and width of the rectangle (assume length is smaller than the width).

2.2 Solve for a: $\int_1^a 2dx = 12$.

2.8 Maximize: $f(x) = 1 + 4x - x^2$.

2.9 Where is $f(x) = x^2 - 5x$ increasing?

2.10 Find the second derivative of $8x^3 + 2x$.

2.13 The total number of people at a football game was 5600. Field-side tickets were 40 dollars and end-zone tickets were 20 dollars. If the total amount of money received for the tickets was 186000 how many of each kind of ticket were sold.