**Hello. 17Nov; 1995.** Write expressions unambiguously e.g, "1/a + b" should be bracketed either [1/a] + b or 1/[a + b]. (Be careful with **negative** signs!) Do **not** approx.: If your result is " $\sin(\sqrt{\pi})$ " then write that rather than  $.9797\cdots$ .

## B4:

In a disk, of radius 5ft, you drill a radius 2ft hole whose edge passes through the center of the disk. How far from the center of the *hole* is the centroid of the holed-disk?

 $\sum_{n=3}^{\infty} \left[ \frac{1+2i}{3} \right]^n = \left[ \frac{i}{2} \right]$ 

Express this sum as a rational in lowest terms.  $\sum_{n=1}^{\infty} \frac{2^n - 5^n}{10^n} =$ 

Suppose  $[C + Di]^2 = -4i$ , where  $C, D \in \mathbb{R}$ . Then C = and D = .

Sum  $\sum_{n=4}^{50} \frac{1}{n^2 - n} = \frac{U}{D}$ , where U = are co-prime posints.

End of Class-B

**B4:** 150pts

Total: 150pts

Filename: Classwork/2Calculus/2Calc1995t/b-cl.2Calc1995t.latex

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