MATH 405, HW 3 SOLUTIONS

PROPESSOR SOCIOE

The Way of Analysis

ps. 45%

11.) To show that x² ≠ −1 when x is a real number we have to consider three cases: x = 0, x > 0, and x < 0. Clearly 0² ≠ −1. If x is a positive real number then we proved in class that x² > 0, and so x² ≠ −1 in this case. If x < 0 this also implies that we cannot have x² = −1, for x² − x · x = −1 · −1 · x · x = (−x)² ≠ −1.</p>

De. 5-60

Suppose that lim x_j = x and lim y_j = y. Then given n ∈ N we can find an m ∈ N so that |x_j - x|, |y_j - y| < 1/2n if j ≥ m. But then we have |(x_j + y_j) - (x + y)| ≤ |x_j - x| + |y_j - y| < 1/n for j ≥ m, and so lim(x_j + y_j) = x + y.

2.) To see that there can only be one cube root of x it suffices to verify this for x ≠ 0 since the case of x = 0 is obvious. Suppose then that y and z were cube roots of x ≠ 0. Clearly neither y nor z could then be zero. On the other hand 0 = x − x = y³ − z³ = (y − z)(y² + z² + yz). Since y and z are nonzero, it is not hard to check that (y² + z² + yz) is a positive number. Therefore after dividing the preceding equation by it we conclude that y − z = 0 and so the two cube roots must be the same.

Let us now show that every real number has a cube root. Clearly the cube root of 0 is 0. Also if x>0 has a cube root z then -z must be the cube root of -x as $(-z)^3=(-1)^3z^2=-x$. Because of this we only must show that every positive real number x has a cube root. We shall use the "divide and conquer" method. If 0 < x < 1 let $y_1=0$ and $z_1=1$. If x>1, let $y_1=1$ and $z_1=x$. In either case we have $y_1^2 \le x \le z_1^2$. Let $m_2=(y_1+z_1)/2$ be the midpoint of the interval (y_1,z_1) . If $m_1^2 \ge x$ take $y_2=y_1$ and $z_2=m_1$, while if $m_1^2 < x$ take $y_2=m_1$ and $z_2=z_1$. In either case we still have $y_2^2 \le x \le z_2^2$. Moreover, the new interval (y_1,z_2) has half of the length of (y_1,z_1) . Continue the process. We obtain an increasing sequence of points y_1 and a decreasing sequence of points z_2 satisfying $y_1^2 \le x \le z_1^2$ for every y. Since $z_2=y_1=(z_1-y_1)/2^{j-2}$ it is clear that the two sequences are equivalent, and since every z_4 and y_5 for $k \ge j$ is in the interval (y_1,z_2) whose length goes to zero with k, it is clear that the two sequences are Cauchy. Thus y_3 and z_4 must have a common limit y. Recalling that $y_1^2 \le x \le z_2^2$, we get by taking limits that $y_1^2 \le x \le y_1^2$, and so $y_1^2 = x$, which means that the limit of the sequences we have constructed must be the cube root of x.

3.) Suppose that |x_n| ≤ 1/2ⁿ and set y_n = x₁ + x₂ + ··· + x_n. Suppose that j < k, then by the triangle inequality |y_n − y_j| ≤ ∑^k_{i=j+1} |x_i| ≤ ∑[∞]_{i=j+1} 2⁻ⁱ − 2^{-j}. Since 2^{-j}

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