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Homework #1

August 2011

1. **Mathematical Induction**

Prove by mathematical induction that $1 + 2 + \dots + n = \frac{n(n+1)}{2}$ for all $n \in \mathbb{N}$.

2. **Proof by Contradiction**

1.1

1.2

1.3

1.4

Suppose that $\sqrt{2}$ is rational. Then we can write $\sqrt{2} = \frac{p}{q}$ for some integers p, q with $q \neq 0$. Squaring both sides gives $2 = \frac{p^2}{q^2}$, or $2q^2 = p^2$. This implies that p^2 is even, and hence p is even. Let $p = 2r$. Then $2q^2 = (2r)^2 = 4r^2$, so $q^2 = 2r^2$. This implies that q^2 is even, and hence q is even. But this contradicts the assumption that $\frac{p}{q}$ is in lowest terms. Therefore, $\sqrt{2}$ is irrational.

Now, suppose that $\sqrt{3}$ is rational. Then we can write $\sqrt{3} = \frac{p}{q}$ for some integers p, q with $q \neq 0$. Squaring both sides gives $3 = \frac{p^2}{q^2}$, or $3q^2 = p^2$. This implies that p^2 is divisible by 3, and hence p is divisible by 3. Let $p = 3r$. Then $3q^2 = (3r)^2 = 9r^2$, so $q^2 = 3r^2$. This implies that q^2 is divisible by 3, and hence q is divisible by 3. But this contradicts the assumption that $\frac{p}{q}$ is in lowest terms. Therefore, $\sqrt{3}$ is irrational.

1.5

1.6

1.7

1.8

1.9

1.10

1.11

1.12

Suppose that $\sqrt{5}$ is rational. Then we can write $\sqrt{5} = \frac{p}{q}$ for some integers p, q with $q \neq 0$. Squaring both sides gives $5 = \frac{p^2}{q^2}$, or $5q^2 = p^2$. This implies that p^2 is divisible by 5, and hence p is divisible by 5. Let $p = 5r$. Then $5q^2 = (5r)^2 = 25r^2$, so $q^2 = 5r^2$. This implies that q^2 is divisible by 5, and hence q is divisible by 5. But this contradicts the assumption that $\frac{p}{q}$ is in lowest terms. Therefore, $\sqrt{5}$ is irrational.

Dasgupta Algorithms Solutions

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Dasgupta Algorithms Solutions Book Review: Unveiling the Magic of Language

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