Pop Quiz 1

September 1, 2003

5 Points

1. TRUE OR FALSE: A partial order must be transitive.

2. What is $\log_{10} 1$?

3. What is $\log_2 8 + \log_2 16$?

4. 

$$\sum_{i=0}^{3} i^2 = ?$$

5. 

$$\sum_{i=0}^{\infty} \left(\frac{1}{2}\right)^i = ?$$
Solutions to Pop Quiz 1

1. True.

2. \[ \log_{10} 1 = 0 \]

3. \[ \log_2 8 + \log_2 16 = 3 + 4 = 7 \]

4. \[ \sum_{i=0}^{3} i^2 = 0^2 + 1^2 + 2^2 + 3^2 = 0 + 1 + 4 + 9 = 14 \]

5. \[ \sum_{i=0}^{\infty} \left(\frac{1}{2}\right)^i = \frac{1}{1 - 1/2} = 2 \]