

Quiz #5

Points: There are two problems on this quiz; each is worth 5 points.

1. Write $1^3 + 2^3 + 3^3 + \cdots + n^3$ using summation notation.

Answer:

2. Find integers a and b with $-10 \leq b \leq 10$ such that

$$2 + 2^2 + 2^3 + \cdots + 2^{26} = 2^a + b.$$

$$a = \boxed{}$$

$$b = \boxed{}$$