

- Announcements: PS2 due Monday
- Quiz Bonus: Prove $1^3 + 2^3 + 3^3 + \dots + n^3 = \frac{n^2(n+1)^2}{4}$

Continue with worksheet

Statements \approx math sentences

def: A statement is a declarative sentence that is true or false.
 ← also called proposition

Q: Which are statements? Discuss

1. The majority of Middlebury students have 1 sibling.

2. The product of 2 and 5. Not a sentence (no verb!)

3. This sentence is not true. Can't be true or false

4. $2 + x = 10$ Could be true or false, but now is neither!

A) All

B) 1, 3

C) 2, 4

D) 1

Predicate - What is it? Becomes a statement if variable gets a value!
We've seen predicates in inductive proofs