I Heart LATEX

Me!

August 31, 2017

Remember your \$ signs! $x^2 + y^2 = 1$, $\frac{a}{b}$.

1 Lists

- 1. First Point (Bold Face)
- 2. Second Point (Italic)
- 3. Third Point (Large Font)
 - (a) First Subpoint (Small Font)
 - (b) Second Subpoint (Tiny Font)
 - (c) Third Subpoint (Huge Font)
- Bullet Point (Sans Serif)
- CIRCLE POINT (SMALL CAPS)

2 Equations

2.1 Binomial Theorem

Theorem (Binomial Theorem). For any nonnegative integer n, we have

$$(1+x)^n = \sum_{i=0}^n \binom{n}{i} x^i$$

2.2 Sets

Theorem. For any sets A, B and C, we have

$$(A \cup B) - (C - A) = A \cup (B - C)$$

Proof.

$$(A \cup B) - (C - A) = (A \cup B) \cap (C - A)^{c}$$

$$= (A \cup B) \cap (C \cap A^{c})^{c}$$

$$= (A \cup B) \cap (C^{c} \cup A)$$

$$= A \cup (B \cap C^{c})$$

$$= A \cup (B - C)$$