

Real Subtraction Theorem

Alex Glandon

December 2025

1 Statement

$$\text{floor}(B) - \text{floor}(A) - 1 < B - A < \text{floor}(B) - \text{floor}(A) + 1$$

2 Proof by Example 1

$$5.5 - 3.5 = 2$$

$$5.9 - 3.1 = 2.8$$

$$5.1 - 3.9 = 1.2$$

3 Proof by Example 2

event A in 1986

event B in 2005

$$18 < \Delta \text{time} < 20$$

4 Proof by Example 3

