

August 26, 2016
 * Quiz #1 Monday
 * SSC #1 Monday

Aug 26-9:58 AM

Core 1.1
 #2 = Prove that $\sqrt{3}$ is Irrational.
 ① Suppose $\sqrt{3}$ is Rational
 $(\frac{m}{n})^2 = 3$
 $\frac{m^2}{n^2} = 3$
 $m^2 = 3n^2$
 $3 \cdot m \cdot m = m \cdot m$
 odd = even
 Contradiction!
 $\therefore \sqrt{3}$ is Irrational
 stop

Aug 26-10:05 AM

Core 1.1
 Algebra Tools
 ① Commutative Prop. + & \cdot
 $a + b = b + a$
 $5 + 2 = 2 + 5$
 $7 = 7$
 $5 \cdot 2 = 2 \cdot 5$
 $10 = 10$
 order changes but result is the same
 ② Associative Prop.
 $a + (b + c) = (a + b) + c$
 $5 + (3 + 2) = (5 + 3) + 2$
 $5 + 5 = 8 + 2$
 $10 = 10$
 associating changes but result is same.

Aug 26-10:19 AM

① $(3x) + (5 + 4x)$
 ② $3x + (4x + 5)$ Comm.
 ③ $(3x + 4x) + 5$ Assoc.
 ④ $7x + 5$

Aug 26-10:38 AM

Distributive Tool
 $a \cdot (b + c) = a \cdot b + a \cdot c$
 $4(-2x + 5) = -8x + 20$

Aug 26-10:44 AM