

January 20, 2017

- sets
- Algebra Power Tools

Jan 20-9:08 AM

Tools

① Commutative Prop.

$$a + b = b + a$$

$$5 + 2 = 2 + 5$$

$$7 = 7 \checkmark$$

key: order changes
but result is
the same.
for addition &
multiplication
only.

Jan 20-9:17 AM

② Associative Prop.

$$a + (b + c) = (a + b) + c$$

$$2 + (3 + 4) = (2 + 3) + 4$$

$$2 + 7 = 5 + 4$$

$$9 = 9 \checkmark$$

$$5 + (x + 2) = (5 + x) + 2$$

$$= (x + 5) + 2$$

$$= x + (5 + 2)$$

$$= x + 7$$

Jan 20-9:31 AM

③ Distributive Prop

$$a \cdot (b + c) = a \cdot b + a \cdot c$$

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key: Multiplication over
Addition

$$5(x + 2) = 5x + 5 \cdot 2$$

$$= 5x + 10$$

$$6y + 12 = 6(y + 2)$$

Jan 20-9:41 AM