

August 24, 2015

$$\frac{16}{16} = 100$$

4 points per question.

~~#2)~~

-1 #3)

$$\frac{13}{16} = 0.8125$$

(81)

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## Algebra's Power Tools

① Commutative

$$a + b = b + a$$

\* order changes; result the same.

② Associative

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

association

\* Order unchanged; but association changes. But result is the same.

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③ Distribution

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

\* multiplication over addition

a)  $2(x+4) = 2x + 2 \cdot 4$   

$$= 2x + 8$$

b)  $\frac{4y - 24}{4} = y - 6$

$y = 1$   
 if  $y = 1$ , then  $\frac{4(1) - 24}{4} = \frac{4 - 24}{4}$   

$$= \frac{-20}{4} = -5$$

$$\frac{4y}{4} - \frac{24}{4} = y - 6$$

$$\frac{4y - 24}{4} = \frac{4(y - 6)}{4}$$

$$= y - 6$$

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