Pre-Algebra Variables, Expressions, and Integers Example 3

Order of Operations

Evaluate the following expressions:

1.
$$6[20+13(6-2)]$$
 2. $18+24-6^2$ 3. $18(18+3^2)$
1. $6[20+13(4-2)]$ 2. $18+24-6^2$ 3. $18(18+3^2)$

$$= 6[20+13(4)]$$

$$= 6[20+52]$$

$$= 6[72]$$

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Evaluate the expression when x = 4

1.
$$14+9(20-\chi^2)$$
 2. $\frac{28-\chi}{2^3}$ 3. $(2^{\chi}+20)+(15-\chi)2$
1. $14+9(20-\chi^2)$ 2. $28-\chi$ 3. $(2^{\chi}+20)+(16-\chi)2$
 $=14+9(20-16)$ $= 28-4$ $= (2^4+20)+(16-\chi)2$
 $=14+9(4)$ $= 14+36$ $= 28-4$ $= (16+20)+(16-4)2$
 $= 36+(15-4)2$ $= 36+(11)2$ $= 36+22$ $= 48$

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