## OFFLINE MASTERY TEST A3-01 FOR INTEGRATED ALGEBRA 1 – FORM 1 (Order of Operations & Other Properties)

## **Ground Rules for Test Completion**

- 1. Print out this test.
- 2. Present your work in a neat and organized manner. Use complete sentences whenever you are asked to make a statement.
- 2. SHOW YOUR WORK: Partial credit will be awarded on the basis of the work shown.
- 3. Make sure you answer ALL parts of problems.

1. [60] SHOW HOW to calculate the value of each expression below using the Order of **Operations.** 

## NOTE: No credit will be awarded unless work is shown.

a. 
$$\frac{5}{9}(129 - 19 \times 3) =$$
 d.  $1^7 + (12 + 9) \cdot 2 =$ 

b. 
$$14 + (54^{\circ} - 4)^{4} \div 9 =$$
 e.  $-31 - \frac{-4 - (-6)(5)}{84 \div 12 + 3 \cdot 18 \div 9} =$ 

c. 
$$135^{1} \div [39 - (3 \cdot 2^{3})] =$$
  
f.  $(234 - 110) \div 20 + [-8] \cdot [\frac{3}{5}] =$ 

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(Order of Operations & Other Properties)

2. [30] Match each equation in the left column with its corresponding property from the right column:

$\underline{\qquad} 2 + (7 + 4) = (2 + 7) + 4$	a.	Additive Identity
$1 \times [-19] = -19$	b.	Additive Inverse
<u> </u>	c.	Associative Property of Addition
$(-\frac{3}{11})(-\frac{11}{3}) = 1$	d.	Associative Property of Multiplication
21 + 0 = 21	e.	Commutative Property of Addition
$(x \cdot y) \cdot z = x \cdot (y \cdot z)$	f.	Commutative Property of Multiplication
$\underline{\qquad} 4 \cdot z = z \cdot 4$	g.	Distributive Property
$\underline{\qquad} a(b+c) = ab + ac$	h.	Multiplicative Identity
-47 + 47 = 0	i.	Multiplicative Inverse

3. [10] Kim has a \$2500 limit on her American Distress card. The outstanding balance on her last statement was \$1254. Since then she made a \$150 payment, four times have put \$30 worth of gas in her car, and bought 2 CDs at \$8.95 each plus 5% sales tax. What is Kim's new American Distress balance before finance charges? **NOTE: No credit will be awarded unless work is shown.**