

Math 085 - Quiz 7

September 19, 2013

Name key

Score _____

Show all your work to receive full credit. Supply explanations when necessary.

NO CALCULATORS ARE ALLOWED ON THIS QUIZ!

1. (1 point) Compute: $5 - (-3) \times (-4) + 7|2 - 8| + (-12)$

$$5 - (-3)(-4) + 7(6) + (-12)$$

$$= 5 - 12 + 42 - 12 = -7 + 42 - 12 = 35 - 12 =$$

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2. (1 point) Evaluate $x^2 - x^4$ when $x = -2$.

$$(-2)^2 - (-2)^4 = 4 - 16 = -12$$

3. (2 points) Use the distributive property to simplify each expression.

(a) $5(3x - 7y + 4)$

$$= 15x - 35y + 20$$

(b) $-3(-8 - 6y + 8w)$

$$= 24 + 18y - 24w$$

4. (1 point) Identify a group of like terms.

$$5x - 8x^2 + x^2 - 7x + 3x^2 - 2x$$

$$x : 5x, -7x, -2x$$

or

$$x^2 : -8x^2, x^2, 3x^2$$