

Math 085 - Quiz 4

February 13, 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) Without actually computing the sum, determine whether the sum will be positive or negative. Explain how you know.

$$-1837 + 2109$$

THE ADDEND WITH THE GREATER ABSOLUTE VALUE
IS POSITIVE. THE SUM WILL BE POSITIVE.

2. (3 points) Compute each sum or difference.

(a) $8 - (-7) = 8 + 7 = \underline{15}$

(b) $15 + (-7) = 15 - 7 = \underline{8}$

(c) $-5 + (-3) = -(5 + 3) = \underline{-8}$

(d) $10 - 20 = 10 + (-20) = -(20 - 10) = \underline{-10}$

(e) $-2 - (-6) = -2 + 6 = (6 - 2) = \underline{4}$

(f) $-9 + 4 = -(9 - 4) = \underline{-5}$

3. (1 point) Compute $(-5) + 7 - 4 - (-1) - 6 + 2$.

$$= -5 + 7 + (-4) + 1 + (-6) + 2$$

$$= -5 + (-4) + (-6) + 7 + 1 + 2$$

$$= -15 + 10 = \underline{-5}$$