Math4010
Number System Questions

(1) Are these positive, negative, or you can't tell? (P = positive #, N = negative #)

    (a) P + N

    (b) P – N

    (c) N^2

    (d) N(P)(N)

(2) Are these even, odd or you can't tell? (O = odd #, E = even #)

    (a) O^2

    (b) E + O

    (c) EE – OO

    (d) 27(E)

    (e) O^{10}

(3) Are these rational, irrational or you can't tell? (I = an irrational #, R = a rational #)

    (a) I^2

    (b) R + I

    (c) I + I

    (d) I^0

    (e) $I \cdot I^{-1}$

    (f) R(I)

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(4) Are these closer to 0, 1, or 2?

    (a) $\left(\dfrac{2}{3}\right)^{3}$

    (b) $\left(\dfrac{9}{4}\right)^{\frac{1}{2}}$

    (c) 0^{0}

    (d) $\left(\dfrac{1}{2}\right)^{10}$

(5) Simplify these, if possible. If not possible, then state that.

    (a) $\dfrac{6}{0}$

    (b) $\dfrac{0}{5}$

    (c) $\dfrac{0}{0}$

    (d) 6^{0}

    (e) 0^{6}

    (f) 0^{0}