Math4010
Number System Questions

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

   (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 number, E = even number)

   (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 number,, R = a rational number)

   (a) I^2 (b) $R + I$

   (c) $I + I$ (d) I^0

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

4. Are these closer to 0, 1 or 2?

   (a) $\left(\frac{2}{3}\right)^3$ (b) $\left(\frac{9}{4}\right)^{1/2}$

   (c) 0^0 (d) $\left(\frac{1}{2}\right)^{10}$

5. Simplify these, if possible. If not possible, then explain the reason.

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

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

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

   (d) 6^0

   (e) 0^6