

1. Write in interval notation: $\{x \mid 0 < x \leq 5\}$

2. Write the interval $[-1, 1]$ in set builder notation.

3. Write the following numbers **without** exponents:

(a) $\frac{10^7}{10^5}$

(b) 10^{-4}

(c) $\left(\frac{2}{3}\right)^{-2}$

(d) $8^{2/3}$

(e) $25^{-1/2}$

(f) $\left(\frac{49}{16}\right)^{1/2}$