

1. Decide which of the following two numbers is larger (i.e which is to the right of the other):  $-\frac{22}{7}$  or  $-\pi = -3.14159\dots$ .

2. Suppose  $-6 < 8(1 - 2x) - 1 \leq 6$ . What interval does  $x$  lie in?

3. For each of the following decimals decide whether it is rational or irrational. Explain.

(a)  $2.020123123123123\dots$ .

(b)  $3.25125112511125111125\dots$ .