

### Questions

Solve the inequality. Write the solution using interval notation, set notation, and graph it on a number line.

1.  $3x - 6 > 9$ .

2.  $7 - 5x \leq -3$ .

3.  $|x - 1| \geq 1$ .

4.  $|4x - 3| < 5$ .

5. A spherical bearing is to have a circumference of 7.2cm with an error of no more than 0.1cm. Use an absolute value inequality to find the acceptable range of values for the diameter of the bearing.