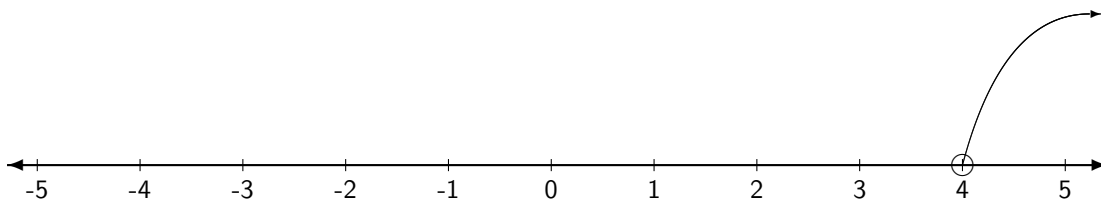


1.

$$\begin{aligned}
 x - 3 &< 5x - 19 \\
 x - 3 + 3 &< 5x - 19 + 3 \\
 x &< 5x - 16 \\
 x - 5x &< 5x - 5x - 16 \\
 -4x &< -16 \\
 -4x \div (-4) &> -16 \div (-4) \\
 x &> 4
 \end{aligned}$$

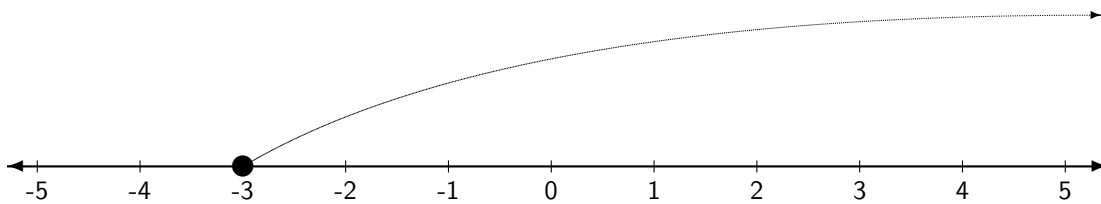
In interval format the answer is $(4, \infty)$, and on a real line the answer is:



2.

$$\begin{aligned}
 2x - 3 &\leq 5x + 6 \\
 2x - 3 + 3 &\leq 5x + 6 + 3 \\
 2x &\leq 5x + 9 \\
 2x - 5x &\leq 5x - 5x + 9 \\
 -3x &\leq 9 \\
 -3x \div (-3) &\geq 9 \div (-3) \\
 x &\geq -3
 \end{aligned}$$

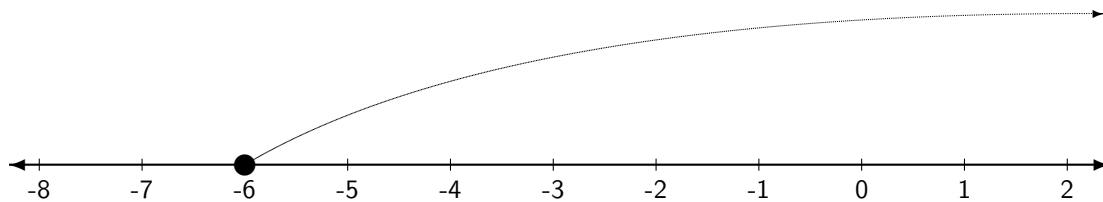
In interval format the answer is $[-3, \infty)$, and on a real line the answer is:



3.

$$\begin{aligned}
 7x - 1 &\geq 6x - 7 \\
 7x - 1 + 1 &\geq 6x - 7 + 1 \\
 7x &\geq 6x - 6 \\
 7x - 6x &\geq 6x - 6x - 6 \\
 x &\geq -6
 \end{aligned}$$

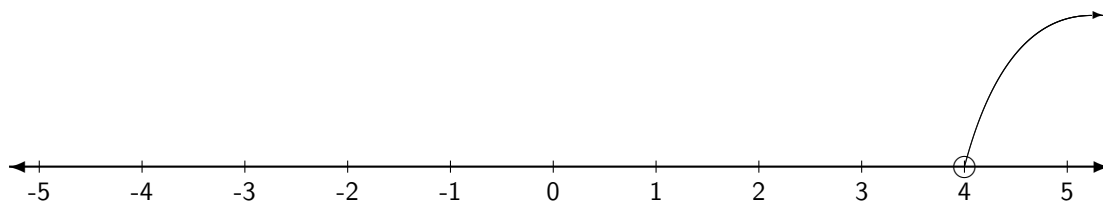
In interval format the answer is $[-6, \infty)$, and on a real line the answer is:



4.

$$\begin{aligned}
 2x + 3 &< 3x - 1 \\
 2x + 3 - 3 &< 3x - 1 - 3 \\
 2x &< 3x - 4 \\
 2x - 3x &< 3x - 3x - 4 \\
 -x &< -4 \\
 -x \div (-1) &> -4 \div (-1) \\
 x &> 4
 \end{aligned}$$

In interval format the answer is $(4, \infty)$, and on a real line the answer is:



5.

$$\begin{aligned}
 -8x + 3 &< -6x - 3 \\
 -8x + 3 - 3 &< -6x - 3 - 3 \\
 -8x &< -6x - 6 \\
 -8x + 6x &< -6x + 6x - 6 \\
 -2x &< -6 \\
 -2x \div (-2) &> -6 \div (-2) \\
 x &> 3
 \end{aligned}$$

In interval format the answer is $(3, \infty)$, and on a real line the answer is:

