

Solve the inequalities for  $x$ .

1.  $6 - 7x > 4$

2.  $5x + 2 > -3x - 4$

3.  $x^2 - 3x - 4 \leq 0$

4.  $x^3 \leq 6x^2 - 8x$

5.  $\frac{(x-2)(x-1)}{5-x} \leq 1$