

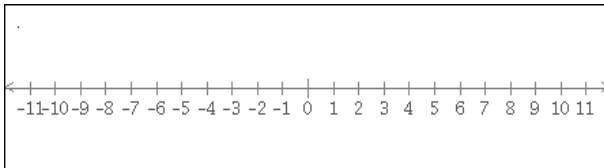
ALEKS[®] Section 8.5 Quadration and Rational Inequalities #3

Intermediate Algebra / MAT135 Fall 2014 (Master Templates)

Student Name/ID:

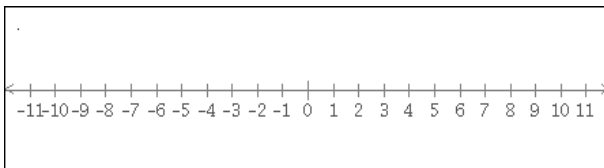
1. Graph the solution to the following inequality on the number line.

$$(x+3)(x-7) > 0$$



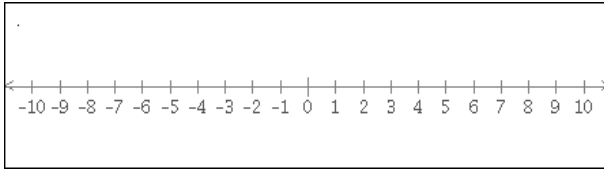
2. Graph the solution to the following inequality on the number line.

$$(x-7)(x-3) > 0$$



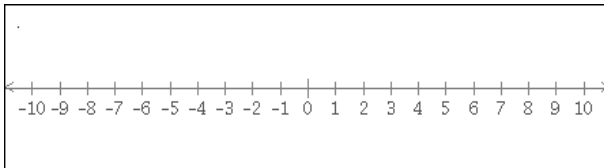
3. Graph the solution to the following inequality on the number line.

$$x^2 - 6x < -8$$



4. Graph the solution to the following inequality on the number line.

$$x^2 + 6x > -8$$



5. Solve the following inequality.

$$\frac{x-1}{x+5} \leq 0$$

Write your answer using interval notation.

6. Solve the following inequality.

$$\frac{-x+6}{x-2} > 0$$

Write your answer using interval notation.

7. Solve the following inequality.

$$\frac{x+7}{3-x} \geq 1$$

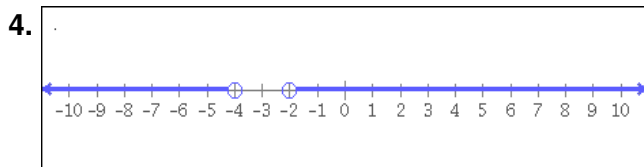
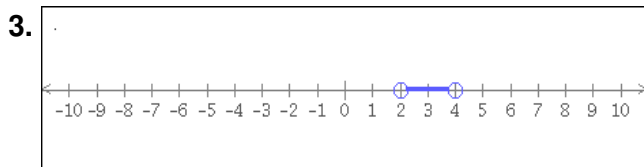
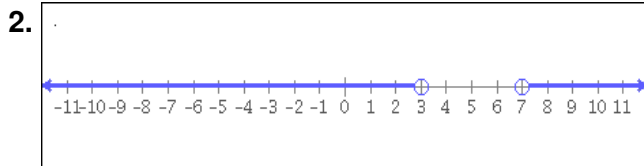
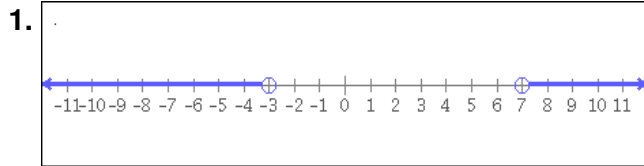
Write your answer as an interval or union of intervals.

8. Solve the following inequality.

$$\frac{x-7}{x+5} \geq -3$$

Write your answer as an interval or union of intervals.

Section 8.5 Quadration and Rational Inequalities #3 Answers for class Intermediate Algebra / MAT135 Fall 2014



5. $(-5, 1]$

6. $(2, 6)$

7. $[-2, 3)$

8. $(-\infty, -5) \cup [-2, \infty)$