

**8-83.**Use the Zero Product Property to find the roots of the polynomials below.

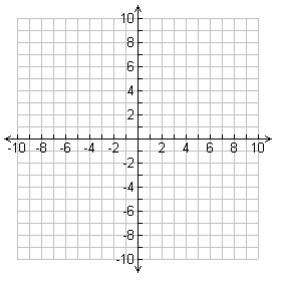
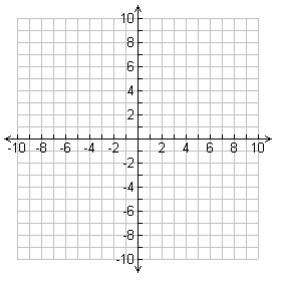
a. 3*x*2 − 7*x* + 4 = 0

b. *x*2 + 6*x* = 0

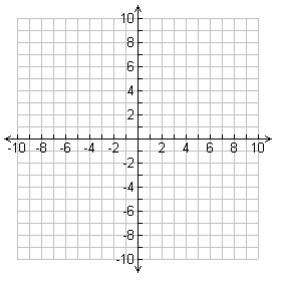
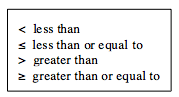
c*.* (*x* + 5)(−2*x* + 3) = 0

**8-86.** Sketch each parabola below with the given information.

* 1. A parabola with *x*-intercepts (2, 0) and (7, 0) and *y*-intercept (0, −8).
  2. A parabola with exactly one x-intercept at (−1, 0) and y-intercept (0, 3).



c. The parabola represented by the equation *y* = (*x* + 5)(*x* − 1).



**8-87.** Review the meanings of the inequality symbols in the box at right. . Then decide if the statements below are true or false.

a. 5 < 7 b. −2 > 9 c. 0 < 0 d. −5 > −10 e. 16 < −16 f. 1 > 1

**8-88.** Calculate the value of each expression below using a scientific calculator.

1. negative 10 plus square root of 25 over 5 b. negative 10 plus square root of 25 over 5 c. negative 10 plus square root of 25 over 5