Lesson 8.2.3 Resource Page
Problem 8-80(c)

Find the x-intercepts of $y = (x + 1)^2 - 16$

a. $y = (x + 1)^2 - 16$
   justification: the x-intercepts are where $y = 0$

b. $0 = (x + 1)^2 - 16$
   justification:

c. $16 = (x + 1)^2$
   justification:

d. $\sqrt{16} = \sqrt{(x + 1)^2}$
   justification:

e. $4 = |x + 1|$
   justification:

f. $4 = x + 1$  $-4 = x + 1$
   justification:

g. $3 = x$  $-5 = x$

h. The x-intercepts are (3, 0) and (–5, 0).