



# Chapter 2 Homework

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## 2.1

$$2k + 1 = -1$$

$$2k = -2$$

$$k = -1$$

## 2.3

$$2k + 1(2k + 1) = 2k + 1$$

$$4k^2 + 4k + 1 = -2$$

$$k = -1$$

## 2.5

$$2k + 1 = -1$$

$$2k = -2$$

$$k = -1$$

## 2.7

$$2k + 1 = -1$$

$$2k = -2$$

$$k = -1$$

## 2.9<sub>a</sub>

$$a^2 = c$$

$$b^2 = d$$

$$(a^2)(b^2) = cd$$

$$(ab)^2 = cd$$

$$t^2 = cd$$

$$b$$

$$cd = n^2$$

$$n = n$$

$$c \neq d$$

$$cd = n(n)$$

c

## 2.11

$$\begin{array}{l}
 x > y \\
 x^2 > y^2 \text{ This statement is only true if the absolute value of } x \text{ is greater than that of } y \\
 x^2 - y^2 > 0 \\
 (x + y)(x - y) > 0 \\
 x > y
 \end{array}$$

## 2.13

$$\begin{array}{l}
 2k + 1 = -1 \\
 2k = -2 \\
 k = -1
 \end{array}$$

## 2.15

$$\begin{array}{l}
 2k + 1 = -1 \\
 2k = -2 \\
 k = -1
 \end{array}$$