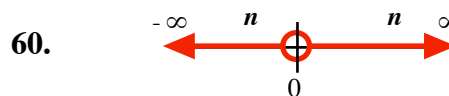
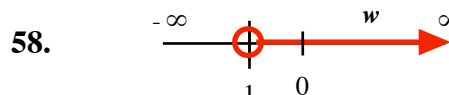
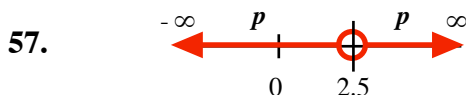
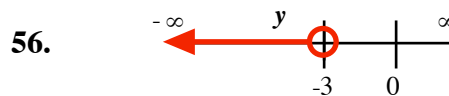
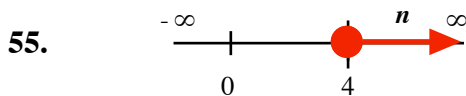


## Chapter 2 Review

## Elementary Algebra, 3rd Edition Answers to All Exercises

1. linear
2. standard form
3. reciprocal
4. least common denominator
5. proportion
6. not equal to
7. solution set
8. direction
9.  $-1 = -1$ ; yes
10.  $12 \neq -4$ ; no
11.  $x = 6$
12.  $v = -\frac{1}{3}$
13.  $y = -28$
14.  $w = 4$
15.  $p = -12$
16.  $x = 6$
17.  $m = -4$
18.  $y = 6$
19.  $w = 4$
20.  $v = 4$
21.  $x = 2$
22.  $x = 11$
23.  $x = -12$
24.  $x = -7$
25.  $w = 5$
26.  $x = 4$
27.  $y = -\frac{1}{2}$
28.  $p = -12$
29.  $x = -7$
30.  $m = 9$
31.  $x = 5$
32.  $x = 6$
33.  $x - 15 = -4$ ; The number is 11.
34.  $3(x + 2) = -6$ ; The number is -4.
35.  $\frac{2}{3} \cdot (x \cdot 4) = 32$ ; The number is 12.
36.  $\frac{1}{2}(x + 9) = 5$ ; The number is 1.
37.  $2(x - 6) = \frac{1}{3}x + 3$ ; The number is 9.
38.  $4x + 12 = \frac{1}{2}(x - 11)$ ; The number is -5.
39.  $45 \neq 48$ ; no
40.  $40 = 40$ ; yes
41.  $210 = 210$ ; yes
42.  $80 \neq 72$ ; no
43.  $v = 35$
44.  $w = \frac{1}{8}$
45.  $x = 5$
46.  $p = -2$
47. It takes Alesandra 40 minutes to read 24 pages.
48. Martha will be able to drive 360 miles on 20 gallons.
49. It will take Joaquin 63 minutes to burn 350 calories.
50.  $1\frac{1}{2}$  pounds of jellybeans will cost \$2.
51.  $x \geq 30$
52.  $x < 5$
53.  $x > 8$
54.  $x \leq 20$



- 61.**  $y \geq -4$       **62.**  $u \geq 0$       **63.**  $w \neq 3.5$       **64.**  $x \leq -2$   
**65.**  $1 < -5$ ; false: No, 2 is not a solution.  
**66.**  $-1 < -1$ ; false: No, 4 is not a solution.  
**67.**  $3 < -9$ ; false: No, 0 is not a solution.  
**68.**  $-5 < -7$ ; true: Yes, 8 is not a solution.

(No graphs are shown for #69 - 80.)

- 69.**  $y > -1$       **70.**  $v \leq -2$       **71.**  $w > 8$       **72.**  $y > -2$   
**73.**  $x < 5$       **74.**  $x < -3$       **75.**  $v > 8$       **76.**  $y \leq 5$   
**77.**  $w \geq \frac{3}{2}$       **78.**  $x > \frac{3}{2}$       **79.**  $x \neq 3$       **80.**  $r \neq 7$