

Chapter 3, Test Form A

1. 3

2. -2

3. $(-\infty, -2)$

4. 3

5. $\frac{5}{7}$

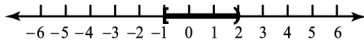
6. $3x - 2 = x - 4; -1$

7. $f(x) = \frac{3}{5}x - 2$

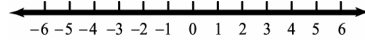
8. $(-\infty, -\frac{5}{2}]$

9. $(-\infty, 2)$

10. $[-1, 2)$



11. $(-\infty, \infty)$



12. $(-\infty, -2] \cup (1, \infty)$

13. 2

14. $(-1, \infty)$

15. $(-10, -2]$

16. $(-\infty, 0] \cup (3, \infty)$

17. $-\frac{1}{2}, \frac{3}{2}$

18. No solutions

19. $(-\infty, -1] \cup [\frac{1}{5}, \infty)$

20. $g = \frac{2d}{t^2}$

Chapter 3, Test Form B

1. 4

2. -2

3. $[-2, \infty)$

4. 0

5. 6

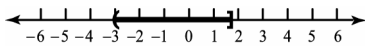
6. $2x + (-4) = x + 1; 5$

7. $f(x) = -2x + \frac{9}{2}$

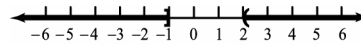
8. $(-\infty, 2)$

9. $(-\infty, -\frac{9}{5}]$

10. $(-3, \frac{5}{3}]$



11. $(-\infty, -1] \text{ or } (2, \infty)$



12. $(1, 3]$

13. -1

14. $(-\infty, 2]$

15. $(3, 18]$

16. $(-\infty, \frac{9}{2}) \cup [9, \infty)$

17. $-\frac{7}{3}, 1$

18. $(-\infty, \infty)$

19. $(-\infty, -\frac{1}{2}) \cup (\frac{3}{2}, \infty)$

20. $r = \frac{A}{2\pi h}$

Chapter 3, Test Form C

1. -40
2. 0.86 mile
3. greater than 0.86 mile
4. 2
5. 7
6. $2x + 2(2x + 6) = 84$;
width: 12 feet; length: 30 feet
7. $f(x) = 3x - \frac{11}{2}$
8. $(\frac{1}{3}, \infty)$
9. $(-\infty, -\frac{8}{5}]$
10. $[25.5, 31.8]$
11. $(0, 25.5) \cup (31.8, 35)$
12. $[-2, 3)$
13. 2
14. $(-1, 2]$
15. The temperature varied between -2.8°C and 42.8°C .
16. The altitude varied between 0.69 mile and 1.38 miles.
17. (a) $|x - (-2)| = 5$ or $|x + 2| = 5$
(b) $-7, 3$
18. (a) $|x - 86| \leq 7$
(b) $[79, 93]$
19. $(-\infty, -1) \cup (4, \infty)$
20. $h = \frac{2A}{a+b}$

Chapter 3, Test Form D

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|--------|---------|---------|---------|
| 1. (d) | 6. (b) | 11. (b) | 16. (c) |
| 2. (c) | 7. (c) | 12. (d) | 17. (a) |
| 3. (a) | 8. (b) | 13. (a) | 18. (b) |
| 4. (b) | 9. (a) | 14. (a) | 19. (c) |
| 5. (a) | 10. (c) | 15. (d) | 20. (d) |