

Answers: Chapter 12 Review

1. $y=22$

2. $y \approx 0.8$

3. No Real Solutions

4. $10\sqrt{2}$

5. $8\sqrt{2}$

6. $8\sqrt{6}$

7. $-\sqrt{13}$

8. 12

9. $3\sqrt{21} + 7$

10. 5

11. $7 + 4\sqrt{15}$

12. $4\sqrt{2}$

13. $2(3 - \sqrt{7})$

14. $x=121$

15. $x=44$

16. $x=20$

17. $x=14, x \neq -3$

18. $c = 3\sqrt{5}$

19. $c = 4\sqrt{5}$

20. $b = 2\sqrt{6}$

21. 38, 43

22. yes

23. no

24. yes

25. Midpoint: $\left(\frac{19}{2}, \frac{1}{2}\right)$
Distance: $3\sqrt{10} \approx 9.5$

26. Midpoint: (0,3)
Distance: $2\sqrt{29} \approx 10.77$