

Answers for Lesson 7-6 Exercises

1. $x^2 + 3x + 5$

2. $x^2 - 3x - 5$

3. $-x^2 + 3x + 5$

4. $3x^3 + 5x^2$

5. $\frac{3x + 5}{x^2}$

6. $\frac{x^2}{3x + 5}$

7. $x^2 + 3x + 5$

8. $-x^2 + 3x + 5$

9. $x^2 - 3x - 5$

10. $3x^3 + 5x^2$

11. $\frac{3x + 5}{x^2}$

12. $\frac{x^2}{3x + 5}$

13. $2x^2 + 2x - 4$; domain: all real numbers

14. $-2x^2 + 2$; domain: all real numbers

15. $2x^2 - 2$; domain: all real numbers

16. $2x^3 - x^2 - 4x + 3$; domain: all real numbers

17. $2x + 3$; domain: all real numbers except 1

18. $\frac{1}{2x + 3}$; domain: all real numbers except $-\frac{3}{2}$ and 1

19. $27x^2$, domain: all real numbers; 3, domain: all real numbers except 0

20. $2x + 3$; 9, -1

21. $x^2 + 5$; 14, 9

22. 8

23. 104

24. 20

25. 16

26. 8

27. 10

28. 12

29. 68

30. 404

31. 1

32. 25

33. -3

34. 9

35. 9.25

36. 0.25

37. ~~6.25~~ $25/4$

38. ~~-2.75~~ $-11/4$

39. $c^2 - 6c + 9$

40. $c^2 - 3$

41. $a^2 + 6a + 9$

42. $a^2 - 3$