

**Chapter 7, Test Form A**

1.  $4x^2$

2.  $5y$

3.  $-2$

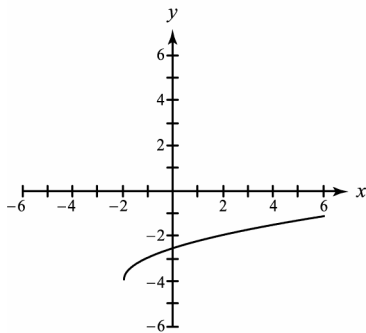
4.  $\sqrt[3]{7^2}$  or  $(\sqrt[3]{7})^2$

5.  $\sqrt[3]{\frac{1}{x^2}}$  or  $\left(\sqrt[3]{\frac{1}{x}}\right)^2$

6.  $4$

7.  $\frac{1}{27}$

8.



9.  $27x^6y$

10.  $\frac{y^{\frac{3}{2}}}{x}$

11.  $x^4$

12.  $2$

13.  $\sqrt{2} + 3\sqrt{3}$

14.  $7\sqrt[3]{2}$

15.  $2$

16.  $\frac{\sqrt{7} + \sqrt{5}}{2}$

17.  $6$  inches

18.  $d = 4\sqrt{5}$

19.  $-5 - 3i$

20.  $\frac{7}{5} + \frac{6}{5}i$

## Chapter 7, Test Form B

1.  $5y^3$

2.  $3x^2$

3. 3

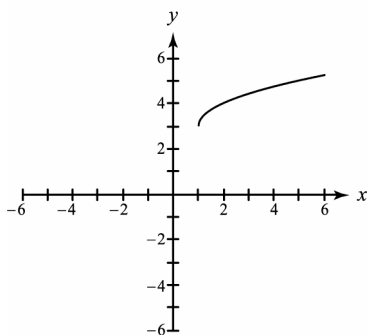
4.  $\sqrt[5]{4^2}$  or  $(\sqrt[5]{4})^2$

5.  $\sqrt[4]{\frac{1}{x^3}}$  or  $(\sqrt[4]{\frac{1}{x}})^3$

6. 16

7.  $\frac{1}{9}$

8.



9.  $8x^6y^3$

10.  $\frac{y^{\frac{1}{3}}}{z}$

11. 4

12. -3

13.  $4\sqrt{5} + 2\sqrt{3}$

14.  $2\sqrt{2}$

15. 2

16.  $\frac{\sqrt{3}-\sqrt{5}}{-2}$ ,  $-\frac{\sqrt{3}-\sqrt{5}}{2}$ ,  $\frac{-\sqrt{3}+\sqrt{5}}{2}$ ,  $\frac{\sqrt{5}-\sqrt{3}}{2}$

17. 8 cm

18.  $d = 5$

19.  $2 - 11i$

20.  $\frac{7}{26} - \frac{17}{26}i$

**Chapter 7, Test Form C**

1. 5.2 feet

2. 4.3 inches

3. -5

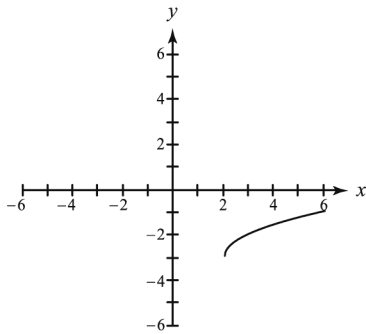
4.  $\sqrt[5]{3^2}$  or  $(\sqrt[5]{3})^2$

5.  $\sqrt[4]{\frac{y}{x}}$

6. 9

7.  $\frac{1}{8}$

8.



9.  $25xy^6$

10.  $\frac{y}{x^{\frac{3}{2}}}$

11. -3

12.  $y^2$

13.  $-2\sqrt{3} + 6\sqrt{2}$

14.  $9\sqrt[3]{2}$

15. 9

16. 2.01 feet

17. 18.3 feet

18.  $d = 2\sqrt{13}$

19.  $-8.5 + 4.6i$

20.  $-\frac{674}{157} + \frac{125}{157}i$

**Chapter 7, Test Form D**

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