DIAGNOSTIC TESTS

Test A Algebra

1. (a)
$$(-3)^4 = (-3)(-3)(-3)(-3) = 81$$

(b)
$$-3^4 = -(3)(3)(3)(3) = -81$$

(c)
$$3^{-4} = \frac{1}{3^4} = \frac{1}{81}$$

(d)
$$\frac{5^{23}}{521} = 5^{23-21} = 5^2 = 25$$

(c)
$$(\frac{\pi}{4})^{-2} = (\frac{\pi}{4})^2 = \frac{\pi}{4}$$

(f)
$$16^{-3/4} = \frac{1}{16^{3/4}} = \frac{1}{\left(\sqrt[3]{16}\right)^3} = \frac{1}{2^3} = \frac{1}{8}$$

2. (a) Note that $\sqrt{200} = \sqrt{100 \cdot 2} = 10 \sqrt{2}$ and $\sqrt{32} = \sqrt{16 \cdot 2} = 4 \sqrt{2}$. Thus $\sqrt{200} = \sqrt{32} = 10 \sqrt{2} = 4 \sqrt{2} = 6 \sqrt{2}$.

(b)
$$(3a^3b^3)(4ab^2)^2 = 3a^3b^316a^2b^4 = 48a^5b^7$$

(c)
$$\left(\frac{3x^{3/2}y^3}{x^2y^{-1/2}}\right)^{-2} = \left(\frac{x^2y^{-1/2}}{3x^{3/2}y^3}\right)^2 = \frac{(x^2y^{-1/2})^2}{(3x^{3/2}y^2)^2} = \frac{x^4y^{-1}}{9x^3y^6} = \frac{x^4}{9x^3y^6y} = \frac{x}{9y^7}$$

3. (a)
$$3(x+6) + 4(2x-5) = 3x + 18 + 8x - 20 = 11x - 2$$

(b)
$$(x + 3)(4x - 5) = 4x^{2} - 5x + 12x - 15 = 4x^{2} + 7x - 15$$

(c)
$$(\sqrt{a} + \sqrt{b})(\sqrt{a} - \sqrt{b}) = (\sqrt{a})^2 - \sqrt{a}\sqrt{b} + \sqrt{a}\sqrt{b} - (\sqrt{b})^2 = a - b$$

Or: Use the formula for the difference of two squares to see that $(\sqrt{a} + \sqrt{b})(\sqrt{a} - \sqrt{b}) = (\sqrt{a})^2 - (\sqrt{b})^2 = a - b$

$$(d) (2x + 3)^2 = (2x + 3)(2x + 3) = 4x^2 + 6x + 6x + 9 = 4x^2 + 12x + 9.$$

Note: A quicker way to expand this binomial is to use the formula $(a + b)^2 = a^2 + 2ab + b^2$ with a = 2x and b = 3: $(2x + 3)^2 = (2x)^2 + 2(2x)(3) + 3^2 = 4x^2 + 12x + 9$

(c) See Reference Page 1 for the binomial formula
$$(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$
. Using it, we get $(x + 2)^3 = x^3 + 3x^2(2) + 3x(2^2) + 2^3 = x^3 + 6x^2 + 12x + 8$.

(b) Factoring by trial and error, we get
$$2x^2 + 5x - 12 = (2x - 3)(x + 4)$$
.

(c) Using factoring by grouping and the difference of two squares formula, we have

$$x^3 - 3x^2 - 4x + 12 = x^2(x-3) - 4(x-3) = (x^2 - 4)(x-3) = (x-2)(x+2)(x-3).$$

(d)
$$x^4 + 27x = x(x^3 + 27) = x(x + 3)(x^2 - 3x + 9)$$

This last expression was obtained using the sum of two cubes formula, $a^a + b^b = (a + b)(a^2 - ab + b^2)$ with a = x and b = 3. [See Reference Page 1 in the textbook.]

(e) The smallest exponent on
$$x$$
 is $-\frac{1}{2}$, so we will factor out $x^{-1/2}$.

$$3x^{3/2} - 9x^{1/2} + 6x^{-1/2} = 3x^{-1/2}(x^2 - 3x + 2) = 3x^{-1/2}(x - 1)(x - 2)$$

(f)
$$x^3y - 4xy = xy(x^2 - 4) = xy(x - 2)(x + 2)$$

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- 1. Understanding the eBook Essential Calculus 2nd Edition Soluti
 - The Rise of Digital Reading Essential Calculus 2nd Edition Soluti
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Essential Calculus 2nd Edition Soluti
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - $\circ \ \ Popular \ eBook \ Platforms$
 - Features to Look for in an Essential Calculus 2nd Edition Soluti
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Essential Calculus 2nd Edition Soluti
 - Personalized Recommendations
 - Essential Calculus 2nd Edition Soluti User Reviews and Ratings
 - Essential Calculus 2nd Edition Soluti and Bestseller Lists

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 - Highlighting and Note-Taking Essential Calculus 2nd Edition Soluti
 - Interactive Elements Essential Calculus 2nd Edition Soluti
- 8. Staying Engaged with Essential Calculus 2nd Edition Soluti
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Essential Calculus 2nd Edition Soluti
- 9. Balancing eBooks and Physical Books Essential Calculus 2nd Edition Soluti
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Essential Calculus 2nd Edition Soluti
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Essential Calculus 2nd Edition Soluti
 - Setting Reading Goals Essential Calculus 2nd Edition Soluti
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Essential Calculus 2nd Edition Soluti
 - Fact-Checking eBook Content of Essential Calculus 2nd Edition Soluti
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web this distinctive structure which was commissioned by a ds hollyhock house art glass 137 00 aline barnsdall commissioned wright to build one of his greatest architectural achievements atop a hill in hollywood the hollyhock house in honor of her favorite flower the geometric pattern found ds thomas entry light art glass 124 00

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web martin house maintains preserves and exhibits a fine collection of works of art designed or selected by frank lloyd wright for the martins as well as objects related to the family and the history of their home a historic furnishings plan was completed in 2008

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web frank lloyd wright s darwin d martin house in buffalo new york 1903 a national historic landmark features a recurring tree of life motif throughout the house is often referred to as a masterpiece wright himself called it the opus admired for its extensive collection of art glass windows designed by wright

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web frank lloyd wright 1867 1959 is internationally recognized as one of the most important figures in 20th century architecture and design his legacy is marked by his vision to create a new form of architecture based on the open landscape of the american midwest

seven tree of life art glass windows installed in the martin house - Sep 04 2022

web feb 3 2022 located in the historic parkside neighborhood of buffalo frank lloyd wright's martin house is home to an extraordinary collection of art glass and the tree of life is wright's best known and most well loved design