

$$1. x^2 - 64x^2 = x^2(x^2 - 64) = x^2(x-8)(x+8)$$

$$2. 27x^3 - 125y^3 = (3x-5y)(9x^2+15xy+25y^2)$$

$$3. x^3 - 4x^2 - 9x + 36 = x^2(x-4) - 9(x-4) = (x-4)(x^2-9) = (x-4)(x-3)(x+3)$$

$$4. (x^2-2x)^2 - 7(x^2-2x) - 8 = [(x^2-2x)-8][(x^2-2x)+1] = (x^2-2x-8)(x^2-2x+1) = (x-4)(x+2)(x-1)$$

$$5. x^{3/2} - 25x^{-1/2} = x^{-1/2}(x^2 - 25) = \frac{(x-5)(x+5)}{x^{1/2}}$$

$$6. \frac{x^2-27}{x^2-6x+9} = \frac{(x-3)(x^2+3x+9)}{(x-3)(x-3)} = \frac{x^2+3x+9}{x-3}$$

$$7. \frac{x}{(x-2)(x+2)} - \frac{2}{x-2} + \frac{1}{1} = \frac{x - 2(x+2) + (x-2)(x+2)}{(x-2)(x+2)}$$

$$= \frac{x - 2x - 4 + x^2 - 4}{(x-2)(x+2)} = \frac{x^2 - x - 8}{(x-2)(x+2)}$$

$$8. [3x^{-2} - (3y)^{-2}]^{-1} = \left[\frac{3}{x^2} - \frac{1}{9y^2} \right]^{-1} = \left[\frac{27y^2 - x^2}{4x^2y^2} \right]^{-1} = \frac{4x^2y^2}{27y^2 - x^2}$$

$$9a) \sqrt{30x^5y^{10}} = \sqrt{10x^4y^{10}} \sqrt{3x} = 10x^2y^5\sqrt{3x}$$

$$A) \sqrt[4]{160x^3y^{10}} = \sqrt[4]{64x^3y^8} \sqrt[4]{10xy^2} = 2xy^2\sqrt[4]{10xy^2}$$

$$C) 4\sqrt[3]{81x^5} + 3x\sqrt[3]{3x^2} = 4\sqrt[3]{27x^3}\sqrt[3]{3x^2} + 3x\sqrt[3]{125}\sqrt[3]{x^2} = 4 \cdot 3x\sqrt[3]{3x^2} + 3x \cdot 5\sqrt[3]{3x^2} = 12x\sqrt[3]{3x^2} + 15x\sqrt[3]{3x^2} = 27x\sqrt[3]{3x^2}$$

$$10. (4\sqrt{6} - 5\sqrt{2})^2 = (4\sqrt{6} - 5\sqrt{2})(4\sqrt{6} - 5\sqrt{2}) = 16 \cdot 6 - 40\sqrt{12} + 25 \cdot 2 = 96 - 40\sqrt{4}\sqrt{3} + 50 = 146 - 80\sqrt{3} \approx 7.44$$

$$11a) \frac{36x^3}{\sqrt{8xy}} = \frac{36x^3}{3x\sqrt{y}} \frac{\sqrt{y}}{\sqrt{y}} = \frac{12x^2\sqrt{y}}{y}$$

$$1) \frac{36x^3\sqrt{3xy^2}}{2\sqrt{xy}} \frac{\sqrt{xy}}{\sqrt{xy}} = \frac{36x^3\sqrt{3xy^2}}{2xy} = \frac{18x^2\sqrt{3xy^2}}{y}$$

$$12. x^2 = 2(3x-5) \Rightarrow x^2 = 6x - 10 \Rightarrow x^2 - 6x + 10 = 0$$

Polynomial
Quadratic Formula
 $x = 3 \pm i$

$$13. 3x^2 = 2(3x+1) \Rightarrow 3x^2 = 6x + 2 \Rightarrow 3x^2 - 6x - 2 = 0$$

Quad Formula
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{6 \pm \sqrt{36 - 4(3)(-2)}}{2(3)} = \frac{6 \pm \sqrt{36 + 24}}{6} = \frac{6 \pm \sqrt{60}}{6} = \frac{6 \pm 2\sqrt{15}}{6} = \frac{3 \pm \sqrt{15}}{3}$

$$14. (\sqrt{2x+15})^2 = (2x+3)^2 \Rightarrow 2x+15 = 4x^2+12x+9 \Rightarrow 0 = 4x^2+10x-6 \Rightarrow 0 = 2(2x^2+5x-3) = 2(2x-1)(x+3) \Rightarrow x = \frac{1}{2} \text{ or } x = -3$$

Reject $x = -3$

Ch: $x = \frac{1}{2}$
 $\sqrt{1+15} = 1+3$
 $\sqrt{16} = 4$
Ch: $x = -3$
 $\sqrt{-6+15} = -6+3$
 $\sqrt{9} = -3$

16a) 14.10
16) 4.64
17a) 7.5x10⁻²³
17b) 32A(-4/5) = 1/16

$$15. (x + \frac{12}{x})^2 - 15(x + \frac{12}{x}) + 56 = 0$$

Let $u = x + \frac{12}{x}$. $u^2 - 15u + 56 = 0$
 $(u-7)(u-8) = 0$
 $u = 7$ or $u = 8$
 $x(x + \frac{12}{x}) = 7 \Rightarrow x^2 + 12 = 7x$
 $x^2 - 7x + 12 = 0 \Rightarrow (x-4)(x-3) = 0 \Rightarrow x = 4 \text{ or } x = 3$

$x^2 + 12 = 8x \Rightarrow x^2 - 8x + 12 = 0 \Rightarrow (x-6)(x-2) = 0 \Rightarrow x = 6 \text{ or } x = 2$

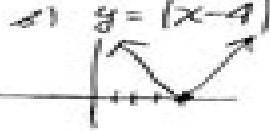
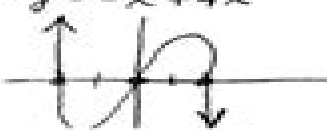
18a) $i^7 = -i$
18b) $\frac{6-4i}{5+4i} = \frac{14-44i}{41}$

$$19a) y = (x-4)^2 - 2$$

$$19b) y = -x^2 + 4x$$

$$20a) y = \sqrt{x} + 4$$

$$20b) y = |x-4|$$



Algebra For College Student

J Spring



Algebra For College Student:

Reviewing **Algebra For College Student**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Algebra For College Student**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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