

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

9a) $\sqrt{300x^5y^9}$
 $\sqrt{100x^4y^8} \sqrt{3x}$
 $10x^2y^4\sqrt{3x}$

1) $\sqrt[4]{1600x^5y^{10}}$
 $\sqrt[4]{64x^3y^8} \sqrt[4]{10x^2y^2}$
 $2x^2y^2\sqrt[4]{10x^2y^2}$

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

10. $(4\sqrt{6} - 5\sqrt{2})^2$
 $(4\sqrt{6} - 5\sqrt{2})(4\sqrt{6} - 5\sqrt{2})$
 $= 16 \cdot 6 - 40\sqrt{12} + 25 \cdot 2$
 $= 96 - 40\sqrt{4}\sqrt{3} + 50$
 $= 146 - 80\sqrt{3} = 7.44$
 $= 2(73 - 40\sqrt{3})$

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

d) $\frac{36x^3\sqrt{3xy^2}}{2\sqrt{xy}\sqrt{3xy^2}} = 12 \cdot \frac{x^2\sqrt{3xy^2}}{\sqrt{3xy^2}}$
 $= \frac{12x^2\sqrt{3xy^2}}{y}$

12. $x^2 = 2(3x-5)$
 $x^2 = 6x - 10$
 $x^2 - 6x + 10 = 0$
 POLYNOMIAL
 A Quadratic Formula
 $x = 3 \pm i$

13. $3x^2 = 2(3x+1)$
 $3x^2 = 6x + 2$
 $3x^2 - 6x - 2 = 0$
 Quad Formula
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
 $x = \frac{6 \pm \sqrt{36 - 4(3)(-2)}}{2(3)}$
 $= \frac{6 \pm \sqrt{36 + 24}}{6}$
 $= \frac{6 \pm \sqrt{60}}{6}$
 $= \frac{6 \pm 2\sqrt{15}}{6}$
 $= \frac{3 \pm \sqrt{15}}{3}$

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

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

CA: $x = \frac{1}{2}$
 $\sqrt{1+15} = 1+3$
 $\sqrt{16} = 4$

CA: $x = -3$
 $\sqrt{-6+15} = -6+3$
 $\sqrt{9} = 3$

16a) 14.10
 CA 4.64
 CA 2.51

$x^2 + 12 = 7x$ $x^2 + 12 = 8x$
 $x^2 - 7x + 12 = 0$ $x^2 - 8x + 12 = 0$
 $(x-4)(x-3) = 0$ $(x-6)(x-2) = 0$
 $x = 4$ $x = 3$ $x = 6$ $x = 2$

17a) 7.5×10^{23}
 b) $32A(-4 \div 5)$ FOMC $\frac{6-4i}{5+4i} = \frac{14-44i}{41-41i}$

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

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

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

b) $y = |x-4|$



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