① 
$$16 - 2 \times 4 + 3 \times 6 \div 3^2 + 10^2 \div 6^2 - 4 \times 3 + 8$$
 $16 - 2 \times 4 + 3 \times 6 \div 9 + 100 \div 25 - 4 \times 3 + 8$ 
 $16 - 8 + 18 \div 9 + 100 \div 25 - 12 + 8$ 
 $16 - 8 + 9 + 4 - 12 + 8$ 
 $16 - 8 + 13 - 12 + 8$ 
 $8 + 1 + 8$ 
 $16 + 1$ 

Parentlesis
Exponents
Multi
Division
Addition
Ssubtraction

(2) 
$$-2^{3} + 6^{2} *3^{2} + 8 *6 + 3 *4 \div 2$$
  
 $-8 + 36 *9 + 8 *6 + 3 *4 \div 2$   
 $-8 + 32 *4 + 48 + 3 *4 \div 2$   
 $-8 + 32 *4 + 48 + 3 *4 \div 2$   
 $-8 + 32 *4 + 48 + 17$   
 $+316 + 48 + 17$   
 $316 + 65$   
 $381 \times 465$   
 $381 \times$ 

$$\begin{array}{c} (8 + 6\sqrt{25} - 4 * 2^{2}) - (3 * 6 \div \sqrt{36}) \\ (8 + 6\sqrt{25} - 4 * 4) - (3 * 6 \div \sqrt{36}) \\ (8 + 6 * 5 - 4 * 4) - (3 * 6 \div \sqrt{36}) \\ (8 + 30 - 16) - (18 \div 6) \\ (38 - 16) - (3) \\ 38 - 10 = 28 - 6 = 22 \\ 22 - 3 \\ 19 + 4 \end{array}$$

Paren Expon Multi Divis Add Sub

$$\frac{10.16 + 2.12.16 - 3.11.10}{12.10.16} = \frac{160 + 192 - 360}{1/8} = \frac{-8}{1} = -64$$

$$\begin{array}{ccc}
81 & = & \frac{243}{3} \\
& & & \\
\hline
243 & & & \\
\end{array}$$

$$3 = 8x^{3} - 3x^{4} + 8x + 2 + 2x^{4} + 2x^{4} - 3x^{3} + 3$$

$$= 8x^{3} - 3x^{3} - 3x^{4} + 2x^{4} + 8x + 2x + 2 + 2 + 3$$

$$= 6x^{3} - 1x^{4} + 7x + 5$$

$$= -x^{4} + 8x^{3} + 7x + 5$$

9 
$$(7a^{2} + 8ab - 2b^{2}) - [(6a^{2} - 4ab + 6) + (3a^{2} + 8ab - b^{2})]$$
  
 $7a^{2} + 8ab - 2b^{2} - 6a^{2} + 4ab - 6 - 3a^{2} - 8ab + b^{2}$   
 $(7a^{2} - 6a^{2} - 3a^{2}) + (3ab + 4ab - 8ab) + (-2b^{2} + b^{2})$   
 $a^{2} - 3a^{2}$   
 $(-2a^{2}) + (4ab) - b^{2} - 6$ 

$$\begin{array}{l}
(\partial x - 7x^{3} + 3) - (3x^{2} - 8x + 2) + (-2x^{3} - 4x^{2} + 2x) \\
(\partial x - 7x^{3} + 3) - (3x^{2} - 8x + 2) + (-2x^{3} - 4x^{2} + 2x) \\
(\partial x - 7x^{3} + 3) - (3x^{2} + 8x) - 2 - (2x) - (2x) \\
(\partial x - 7x^{3} + 3) - (3x^{2} + 8x) - 2 - (2x) - (2x) \\
(\partial x - 7x^{3} + 3) - (3x^{2} + 8x) - 2 - (2x) - (2x) - (2x) \\
(\partial x - 7x^{3} - 9x^{2} + 3x^{2} + 3x) - 2 - (2x) - ($$

$$\frac{(x-6)(x+6)}{(x+6)(x+3)} = \frac{x-6}{x+3}$$

$$= \frac{(x-5)(x+3)}{(3-x)} - x+3$$

$$\frac{3x+1}{5} + \frac{7-5x}{6} = \frac{6(3x+1)+5(2-5x)}{5\cdot6} = \frac{18x+6+10-25x}{30} = \frac{-7x+16}{30}$$

$$\frac{2x}{x^{2}-4} + \frac{1}{x-2} + \frac{2}{x+2} = \frac{2x + x+2 + 2x - 4}{(x+2)(x-2)}$$

$$\frac{4x + x - 2}{(x+2)(x-2)} = \frac{5x - 2}{(x+2)(x-2)}$$

$$\frac{(x+1)(x+1)}{(x+1)} = \frac{(y+4)}{(x-1)} \div \frac{y^{3}-1}{y-1}$$

$$= \frac{(x+1)}{(x-1)} \cdot \frac{(x+1)}{(x-1)} = \frac{(y+4)}{(x-1)} \cdot \frac{y^{3}-1}{(x-1)}$$

$$= \frac{(x+1)}{(x-1)} \cdot \frac{(x+1)}{(x-1)} = \frac{(x+1)}{(x-1)} \cdot \frac{(x+1)}{(x-1)}$$

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$$\begin{array}{c}
(1)(16x - y)(4x + y) \\
64x^2 - 4xy + 16xy - y^2 \\
64x^2 + 12xy - y^2
\end{array}$$

$$\frac{(4)^{3} + 6y^{4}}{64x^{6} + 3x}$$

$$\frac{13}{3 y^{2} + 2} = \frac{2 + y^{3} + 2^{3} - 15y^{6} + 2^{2}}{3 y^{2} + 2} = \frac{3y^{2} + 2}{3y^{2} + 2} = \frac{3y^{2} + 2}{3y^{2} + 2}$$