

①  $9\sqrt[3]{x} - 4\sqrt[3]{x}$   
 $5\sqrt[3]{x}$

②  $3\sqrt{5} + 2\sqrt{5} + 6\sqrt{5} - 8\sqrt{5}$   
 $9\sqrt{5} - 6\sqrt{5}$

③  $\sqrt[3]{16} - 6\sqrt[3]{2}$   
 $\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 2} - 6\sqrt[3]{2}$   
 $2\sqrt[3]{2} - 6\sqrt[3]{2}$   
 $-4\sqrt[3]{2}$

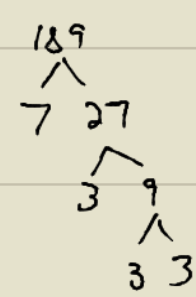
④  $7\sqrt{45x^5} + 3x^2\sqrt{20x}$   
 $7\sqrt{3 \cdot 3 \cdot 5x^5} + 3x^2\sqrt{2 \cdot 2 \cdot 5 \cdot x}$   
 $7 \cdot 3x^2\sqrt{5x} + 3 \cdot 2x^2\sqrt{5x}$   
 $21x^2\sqrt{5x} + 6x^2\sqrt{5x}$

$5 \div 2 = 2 \text{ r } 1$   
out in

$27x^2\sqrt{5x}$

⑤  $4\sqrt[3]{-7x^3} + 6x\sqrt[3]{189} + \sqrt[3]{56}$   
 $-4x\sqrt[3]{7} + 6x\sqrt[3]{3 \cdot 3 \cdot 3 \cdot 7} + \sqrt[3]{2 \cdot 2 \cdot 2 \cdot 7}$   
 $-4x\sqrt[3]{7} + 6x \cdot 3\sqrt[3]{7} + 2\sqrt[3]{7}$   
 $-4x\sqrt[3]{7} + 18x\sqrt[3]{7} + 2\sqrt[3]{7}$   
 $14x\sqrt[3]{7} + 2\sqrt[3]{7}$

$3 \div 3 = 1 \text{ r } 0$   
out in



$(14x+2)\sqrt[3]{7}$

⑥  $\sqrt{4x-4} - \sqrt{16x-16}$   
 $\sqrt{4(x-1)} - \sqrt{16(x-1)}$   
 $\sqrt{2 \cdot 2(x-1)} - \sqrt{4 \cdot 4(x-1)}$   
 $2\sqrt{x-1} - 4\sqrt{x-1}$   
 $-2\sqrt{x-1}$

⑦  $\sqrt{32x^2} + \sqrt{x^2}$   
 $\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot x^2} + \sqrt{x^2}$   
 $2\sqrt{x^2} + \sqrt{x^2}$   
 $3\sqrt{x^2}$

⑧  $\sqrt{3}(\sqrt{7} - 4\sqrt{15})$   
 $\sqrt{3}\sqrt{7} + \sqrt{3}(-4\sqrt{15})$   
 $\sqrt{3 \cdot 7} - 4\sqrt{3 \cdot 15}$   
 $\sqrt{21} - 4\sqrt{3 \cdot 3 \cdot 5}$   
 $\sqrt{21} - 4 \cdot 3\sqrt{5}$   
 $\sqrt{21} - 12\sqrt{5}$