

1. $\frac{2187}{512}$

2. $\frac{33}{128}$

3. $\frac{2\sqrt{6}}{3}$

4. $\frac{4}{3}$

5. $\frac{12\sqrt{5}}{49}$

6. $\frac{x^3 - 6x^2 - 9x - 18}{9(x^2 - 1)}$

7. $\{X \geq 23\}$

8. $(\frac{3}{2}, \frac{1}{2})$

9. $a = -1$ 或 $\frac{1}{9}$

10. $\frac{213}{17}$

11. $(-7, -5, 13)$

12. $\frac{10127}{8}$