1

$$\begin{cases} |z| = |z - 4i| \\ \frac{\pi}{4} \geq Arg\, z < \frac{\pi}{2} \end{cases}$$

2

$$\begin{cases} |Z + 4| - |z + 2 - 2i| \\ |Z| \geq 2 \end{cases}$$

3

$$\begin{cases} |z - 1 - i| < \sqrt{2} \\ Arg(z - 1 - i) < \frac{\pi}{2} \end{cases}$$

4

$$\begin{cases} x + 5y = 2 \\ -3x + 6y = 15 \end{cases}$$

5

$$\begin{cases} x - y - z = 1 \\ 3x + 4y - 2z = -1 \\ 3x - 2y - 2z = 1 \end{cases}$$

6

$$\begin{cases} y - 3z + 4v = 0 \\ x - 2z = 0 \\ 3x + 2y - 5v = 2 \\ 4x - 5z = 0 \end{cases}$$

7

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 1 \end{bmatrix} * \begin{bmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \\ 5 & 1 & 3 \end{bmatrix}$$

8

$$\begin{bmatrix} 0 & 1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix} * \begin{bmatrix} 11 & -2 \\ 6 & -14 \\ -21 & 30 \end{bmatrix}$$

9

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix} * \begin{bmatrix} 1 & 1 & 3 \\ 2 & 1 & 4 \\ 1 & 3 & 0 \end{bmatrix}$$

10

$$\begin{vmatrix} -3 & 2 \\ 8 & -5 \end{vmatrix}$$

11

$$\begin{vmatrix} \sin\alpha & \cos\alpha \\ \sin\beta & \cos\beta \end{vmatrix}$$

12

$$\begin{vmatrix} 1 & i & 1+i \\ -i & 1 & 0 \\ 1-i & 0 & 1 \end{vmatrix}$$

13

$$\left[\begin{array}{cc|c|ccc} 1 & 0 & 0 & 1 & 1 & 1 \\ \hline 0 & 2 & 2 & 1 & 2 & 3 \\ 0 & 2 & 2 & 4 & 5 & 6 \\ \hline 0 & 0 & 0 & 3 & 3 & 1 \\ 0 & 0 & 0 & 3 & 1 & 3 \\ 0 & 0 & 0 & 1 & 3 & 3 \end{array}\right]$$

14

$$\int_1^\infty \frac{dx}{(x^2+4)^2}$$

15

$$\int_\infty^0 \frac{dx}{x^2+4}$$

16

$$\int_{-\infty}^\infty x^2 exp^{-x^3} dx$$

17

$$\int_1^\infty \frac{dx}{\sqrt[3]{3x+5}}$$

18

$$\log_{\sqrt{5}} 5\sqrt[3]{5}$$

19

$$\log_{\sqrt[3]{3}} 27$$

19

$$\log_2 8\sqrt{2}$$

20

$$\lim_{n\to\infty}\left(\sqrt{n+6\sqrt{n}+1}-\sqrt{n}\right)$$

21

$$\lim_{n\to\infty} \frac{1+\frac{1}{2}+\frac{1}{2^2}+\ldots+\frac{1}{2^n}}{1+\frac{1}{3}+\frac{1}{3^2}+\ldots+\frac{1}{3^n}}$$

22

$$\sum_{n=1}^\infty (-1)^{n+1}(2n-1)$$

23

$$\sum_{n=1}^\infty \sin\frac{2\pi}{3^n}\cos\frac{4\pi}{3^n}$$

24

$$\left[\begin{array}{ccc} 1 & 2 & 3 \\ 0 & -6 & 7 \end{array}\right]^T - \left[\begin{array}{cc} 1 & 0 \\ 2 & -6 \\ 3 & 7 \end{array}\right]$$

25

$$U_{AB} = \frac{W_{A\to B}}{q} = \int_A^B \vec{E} * \vec{dl}$$