

少生大多

习题3.1

$$3T \begin{vmatrix} \frac{2}{3} & \frac{3}{3} \\ \frac{3}{3} & \frac{2}{3} \end{vmatrix} = 2 \times (1 - 6) - (2) \times (3 - 2) + 3 \times (9 - 1) = \frac{20}{30}$$

$$\begin{vmatrix} 2 & -\frac{1}{2} & 3 \\ 3 & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ 1 & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ 1 & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ 1 & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ 1 & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ 1 & \frac{1}{2} &$$

$$|07| = -3x | \frac{1}{2} - \frac{1}{4} | \frac{1}{5} | \frac{1}{3} | \frac$$

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$$\begin{vmatrix} 3 & 2 & 4 & 0 \\ 0 & 0 & 4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 0 & -4 & 1 & 0 \\ 2 & 3 & 2 & 0 \\ 0 & -4 & 1 & 0 \\ 0$$

$$|57. = |x3x(-3) + 0x2x0 + 4x2x5 - 0 - 3x2x1 - 0$$

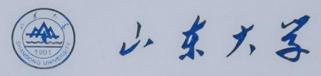
$$= -b + 40 - 10 = 24$$

19丁 行友雄, 变存负值;

20T. 对外别门,不过

以T. 对XK, 值xk

27 1厅水加到沿, 不变



习题 3.2

$$\begin{vmatrix} 1 & 5 & -4 \\ -1 & 4 & 5 \\ 2 & 3 & 7 \end{vmatrix} = \begin{vmatrix} 1 & 5 & -4 \\ 0 & 1 & 1 \\ 0 & 2 & -1 \end{vmatrix} = \begin{vmatrix} 15 & -4 \\ 0 & 1 & 1 \\ 0 & 0 & 3 \end{vmatrix} = 1 \times 1 \times 3 = 3$$

$$\begin{vmatrix} 3 & 4 & 3 & -1 \\ 3 & 0 & 1 & -3 \\ -6 & 0 & -4 & 3 \\ 6 & 8 & -4 & +1 \end{vmatrix} = \begin{vmatrix} 3 & 4 & 3 & 1 \\ 3 & 0 & 1 & 3 \\ -6 & 0 & -4 & 3 \\ 0 & 0 & 2 & 1 \end{vmatrix} = -4 \times \begin{vmatrix} 3 & 1 & -3 \\ 6 & -4 & 3 \\ 0 & 2 & 1 \end{vmatrix}$$

$$= -4 \times \begin{vmatrix} 3 & 1 & -3 \\ 0 & 2 & -3 \\ 0 & 2 & 7 \end{vmatrix} = -4 \times \begin{vmatrix} 3 & 1 & -3 \\ 0 & 2 & 3 \\ 0 & 0 & 2 \end{vmatrix} = -4 \times 3 \times 2 \times 2 = -48$$

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二个可至 立 残性相关

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c)
$$2 \det A = -6$$



习题 3.3

1. 風雪

$$\begin{bmatrix} 5 & 7 \end{bmatrix} \begin{bmatrix} x_1 \\ 2 & 4 \end{bmatrix} \begin{bmatrix} x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 3 \\ 1 \end{bmatrix}$$

$$X_1 = \frac{\text{dot}A_1(B)}{\text{dot}A} = \frac{|\frac{3}{3}|_{\frac{7}{6}}}{6} = \frac{12-7}{6} = \frac{1}{6}$$

$$X_2 = \frac{\det A_2(\vec{B})}{\det A} = \frac{|\vec{z}|^3}{6} = \frac{|\vec{z}-\vec{b}|}{6} = \frac{1}{6}$$

$$57 \text{ ma}_{A=-\frac{1}{3}} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_1 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_1 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_1 \end{bmatrix} = \begin{bmatrix} x$$

$$dot A = \begin{cases} 0 & 1 & 7^{2} \\ -3 & 0 & 1 \end{cases} = -2 + (-1)(-6) + 0$$

$$dot A = \begin{cases} 2 \\ -3 \end{cases} = \begin{cases} 2 \\ 2 \\ 2 \end{cases} = \begin{cases} 2 \\ 2 \end{cases} = \begin{cases} 2 \\ 2 \\ 3 \end{cases} = \begin{cases} 2 \\ 3 \\ 2 \end{cases} = \begin{cases} 2 \\ 3 \\ 3 \end{cases} = \begin{cases} 3 \\ 3 \\ 3 \end{cases} = 3 \end{cases} = 3 \end{cases} = 3 \end{cases} = \begin{cases} 3 \\ 3 \\ 3 \end{cases} = 3 \end{cases}$$

$$\frac{1}{3} = \frac{1}{3} = \frac{1}{3} = \frac{1}{3} = \frac{3}{3} = \frac{3}$$

ILT AP

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补充练习

7 AP det[| x y,] = x y, -x, y, + (+) (xy, = x, y) + xy, -x, y = X, Y2 - X, Y, - XY2 + X, Y + XY, -X, Y = (y,-y2) x + (x2-x1) y + x142 +x4, =0

经超强过(从外), (加州) 历色 公证年

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- a) det[A o] = det AI = det A
- b) det[i o]= detID = detP
- c) det [A O] = Vet AP = detAdetP ?

d) det det[8 3] = detAD = detAdetD

16T \$ 「信数 X(-1) 加到另一行不完改資便 [a-b 0 b-a bu 0 a-b 0 c a-b 0 拥着于倒置后的月鱼换