Câu 1. $\Delta a^* = |a|\delta_a + |a - a^*|, \quad \uparrow$

Câu 2. $k \geqslant log(2|a|\delta_a), \quad k \in Z$

Câu 3. $\Delta_f = |f'_x|\Delta_x + |f'_y|\Delta_y, \quad \uparrow$

Câu 4. $m = \min\limits_{x\in[a,b]} |f'(x)|, \Delta x^* = \frac{|f(x^*)|}{m}, \quad \uparrow$

Câu 5. $f(X)$, xét dấu $f(x_i), \quad \rightarrow$

Câu 6. $q = \max\limits_{x\in[a,b]} |g'(x)| \quad STO \quad A, n \geq \frac{\ln \frac{(1-A)10^{-10}}{|g(x_0)-x_0|}}{\ln A}, \quad n \in N$

Câu 7. $Y = g(X) : |Y - X| : X = Y : D = D + 1$

Câu 8. $q = \max\limits_{x\in[a,b]} |g'(x)|, \Delta x_2 = \frac{A^2}{1-A}|g(x_0) - x_0|, \quad \uparrow$

Câu 9. $X = X - \frac{f(X)}{f'(X)}, \quad \rightarrow$

Câu 10. $m = \min\limits_{x\in[a,b]} |f'(x)|, \begin{cases} f(a)f''(a) > 0. \rightarrow x_0 = a \\ f(a)f''(a) < 0. \rightarrow x_0 = b \end{cases}$

$$X = X - \frac{f(X)}{f'(X)} : \frac{|f(X)|}{m}, \quad \uparrow$$

Câu 11. $tr(U) = D_1 + \frac{D_2}{D_1} + \frac{D_3}{D_2}$. →

Câu 12. $B_{32} = \frac{A_{32}}{\sqrt{D_1 D_2}}$, A_{32} là định thức bỏ đi dòng 3 cột 2 của A →

Câu 13. $\alpha > \frac{a_{21}a_{12}}{a_{11}}$, hoặc $\begin{vmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & \alpha & a_{23} \\ a_{31} & a_{32} & a_{33} \end{vmatrix} > 0$. ↓

Câu 14. $k_\infty(A) = ||A||_\infty ||A^{-1}||_\infty$. ↑

Câu 15,16,17,18,19,20.

$$\begin{cases} a_{11}x_1 + a_{12}x_2 &= b_1 \\ a_{21}x_1 + a_{22}x_2 &= b_2 \end{cases}$$

Câu 15.

$$X = (b_1 - a_{12}B) \div a_{11} : Y = (b_2 - a_{21}A) \div a_{22} :$$

$$|X - A| : |Y - B| : A = X : B = Y$$

$$||T_j||_\infty = \max\{|\frac{a_{12}}{a_{11}}|, |\frac{a_{21}}{a_{22}}|\}$$

$$\Delta x^{(2)} = \frac{||T_j||_\infty}{1 - ||T_j||_\infty} ||x^{(2)} - x^{(1)}||_\infty, \quad \uparrow$$

Câu 16.

$$X = (b_1 - a_{12}B) \div a_{11} : Y = (b_2 - a_{21}A) \div a_{22} :$$

$$|X - A| : |Y - B| : A = X : B = Y : D = D + 1$$

Câu 17.

$$X = (b_1 - a_{12}B) \div a_{11} : B = (b_2 - a_{21}A) \div a_{22} : A = X,$$

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Câu 18.

$$X = (b_1 - a_{12}B) \div a_{11} : Y = (b_2 - a_{21}X) \div a_{22} :$$

$$|X - A| : |Y - B|$$

$$||T_g||_\infty = |\frac{a_{12}}{a_{11}}|$$

$$\Delta x^{(2)} = \frac{||T_g||_\infty^2}{1 - ||T_g||_\infty} ||x^{(1)} - x^{(0)}||_\infty, \qquad \uparrow$$

Câu 19.

$$X = (b_1 - a_{12}B) \div a_{11} : Y = (b_2 - a_{21}X) \div a_{22} :$$

$$|X - A| + |Y - B| : A = X : B = Y : D = D + 1$$

Câu 20. $A = (b_1 - a_{12}B) \div a_{11} : B = (b_2 - a_{21}A) \div a_{22}, \qquad \rightarrow$