torsdag 5 januari 2023 20:28

a)
$$y'' + 6y' + 11y' + 6y = 0$$

$$P(r) = \int_{1}^{3} + 6 \int_{2}^{2} + 1(r + 6 = 0)$$

$$g(ssning) = r = \pm 1, \pm 2, \pm 3$$

$$\int_{1}^{2} -1 \int_{2}^{2} -2 \int_{3}^{2} -3$$

$$S: y = Ae^{x} + Be^{2x} + Ce^{3x}$$

$$\frac{\int_{1}^{2}}{\int_{1}^{2}} P(\zeta) = \zeta^{4} - 2\zeta^{3} + 2\zeta - 1 = 0$$

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$$gissning: \Gamma = 21$$
,
$$\Gamma_1 = 1 \quad \Gamma_2 = -1$$

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$$\frac{3.55ning:}{(1-1)(r+1)=r^2-1} \qquad \qquad \frac{5.7}{(r-1)(r+1)(r^2-2r+1)=(r-1)(r+1)(r-1)^2}$$

$$\frac{(^{2}-2)^{2}+1}{(^{4}-2)^{3}+2)^{2}-1}$$

$$\frac{(^{2}-2)^{3}+2)^{2}-1}{(^{2}-1)^{3}+2}$$

$$\frac{(^{2}-2)^{3}+2}{(^{2}-1)^{3}+2}$$

$$-263+6+26$$

$$\frac{-(-2(+2))}{-2}$$

$$\frac{y_{p}}{y_{p}} = 2e^{x}$$

$$y_{p} = 2e^{x} + 2e^{x}$$

$$\frac{J'=ze'+z'e'}{J''=e'(z'+z)+e'(z''+z')=e'(z''+z')} = e'(z''+z'') = e'(z''+z'')$$

$$\int_{-\infty}^{\infty} = e^{-\frac{1}{2}(2+2)} + e^{-\frac{1}{2}(2+2)} + e^{-\frac{1}{2}(2+2)} + e^{-\frac{1}{2}(2+2)} = e^{-\frac{1}{2}$$

$$= e^{\times} \left( \frac{2'' + 3z' + 3z' + z}{2} \right)$$

母 2 + 2 2 = 1

$$\frac{2^{(4)} + 2^{2''} = 1}{2^{2} + 2^{2}} = \frac{1}{2^{2} + 2^{2}} = \frac{1}{2^{2}} = \frac{1}{2^{2}} = \frac{1}{2^{2}} = \frac{1}{2^{2}} = \frac{1}{2^{2}} = \frac{1}{2^{2}} = \frac{1}$$

$$0 + 2.6A = 1$$
  $A = 1/2$