Giurgiu PETRU 1711 08.06.4992 N=8+6=14

1.
$$A = \begin{pmatrix} -1 & 0 & 1 & 1 \\ 0 & 1 & 1 & -1 \end{pmatrix}$$
 $B = \begin{pmatrix} 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & -1 \end{pmatrix}$
 $C = \begin{pmatrix} 1 & 0 & 1 & 1 \\ 1 & 0 & 1 & -1 \end{pmatrix}$
 $A = \begin{pmatrix} 0 & 1 & 1 & 1 & -1 \\ 1 & 0 & -1 & -1 & -1 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 1 & 1 & -1 & -1 \\ 1 & 0 & -1 & -1 & -1 \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 1 & 0 & -1 & -1 \\ 1 & 0 & -1 & -1 & -1 \end{pmatrix}$
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 $A = \begin{pmatrix} 1 & 0 & 0 & -1 & -1 & -1 \\ 1 & 0 & 0 & -1 & -1 \end{pmatrix}$

AB | AC colimer: (a)
$$\frac{1}{2} = \frac{1}{6} = \frac{2}{-2}$$
 FALS = >

=> AB | AC mu sunt colimiar: => punctale H, B, C

formeas an triangli

$$\cos A = \frac{AB \cdot AC}{|AB| |AC|} = \frac{A \cdot 2 + A \cdot 0 + (-2)(-2)}{|C - 2\sqrt{2}|} = \frac{2 + 4}{7\sqrt{3}} = \frac{3\sqrt{3}}{2\sqrt{3}} = \frac{3\sqrt{3}}{2} = \frac{\sqrt{3}}{2}$$

$$= \frac{3\sqrt{3}}{2\sqrt{3}} = \frac{3\sqrt{3}}{2} = \frac{\sqrt{3}}{2}$$

$$A = \arccos \frac{\sqrt{3}}{2}$$

$$A = \frac{11}{C}$$

$$m(+A) = 3e^{0}$$

$$ABC = \frac{|AB \times AC|}{2} = \frac{|AB||AC| \cdot \sin A}{2} = \frac{2\sqrt{3}}{2} = \sqrt{3}$$

$$\sin A = \sin \frac{11}{6} = \frac{1}{2}$$

$$\sin A = \sin \frac{11}{6} = \frac{1}{2}$$

C)
$$AB: \frac{x - x_{A}}{x_{B} - x_{A}} = \frac{y - y_{A}}{y_{B} - y_{A}} = \frac{2 - 2_{A}}{2_{B} - 2_{A}}$$
 $AB: \frac{x + 1}{0 + 1} = \frac{y + 0}{1 - 0} = \frac{2 - 1}{-1 - 1}$
 $AB: \frac{x + 1}{1} = \frac{y}{1} = \frac{2 - 1}{-1 - 1}$
 $AB: \frac{x + 1}{1} = \frac{y}{1} = \frac{2 - 1}{-1 - 1}$
 $AB: \frac{x + 1}{1} = \frac{y - y_{A}}{1 - 0} = \frac{2 - 1}{-1 - 1}$
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 $AB: \frac{x + 1}{1 - 0} = \frac{y - y_{A}}{1 - 0} = \frac{y - y_$

2. a)
$$y' = x'^{\frac{6}{5}} \sin x + e^{x} + \frac{1}{x^{\frac{2}{2}-14^{2}}} + 1$$
 $y = \int (x^{\frac{16}{5}} - \sin x + e^{x} + \frac{1}{x^{\frac{2}{2}-14^{2}}} + 1) dx$
 $= \frac{x^{\frac{15}{5}}}{15} - (-\cos x) + e^{x} + \frac{1}{2 \cdot 14} \ln \left| \frac{x^{-\frac{15}{4}}}{x^{+\frac{14}{4}}} \right| + x + c$
 $= \frac{x^{\frac{15}{5}}}{15} + \cos 5x + 0^{x} + \frac{1}{28} \ln \left| \frac{x^{-\frac{15}{4}}}{x^{+\frac{14}{4}}} \right| + x + c$

6) $(x + 14) = y' = y^{-\frac{14}{4}}$
 $\frac{dy}{dx} = \frac{y^{-\frac{14}{4}}}{x^{+\frac{14}{4}}}$
 $\frac{dy}{dx} = \frac{dx}{x + 14}$
 $\frac{dy}{dx} = \frac{dx}{x + 14}$

()
$$19 - 9 + \frac{1}{x} + \frac{1}{x} + \frac{1}{2} + \frac{1}{x} + \frac{1}{2} + \frac{$$

$$-(C(x) \cdot x) + \frac{1}{x} \cdot C(x) \times = -2x^{2}$$

$$-(C'(x) \cdot x) - (C(x) + C(x) = -2x^{2}$$

$$-(C'(x) - +2x)$$

$$C('(x) - +2x)$$

$$C((x) - +2 \cdot x) + x^{2}$$

$$2 = +x^{2} \cdot x = +x^{3}$$

$$2 = 2x + 2x = C \cdot x + x^{3}$$

$$2 = 2x + 2x = C \cdot x + x^{3}$$

$$3 = -(x + x) + x^{3}$$

$$4 = -(x + x) + x^{3}$$

$$\int_{0}^{1} = C_{1}e^{-2x} + C_{2}e^{5x}$$

$$\int_{0}^{1} | = -140x^{2} - 84x + 28$$

$$= \int_{0}^{1} | = 24x + 8$$

$$\int_{0}^{1} | = 24x + 8$$

$$= \int_{0}^{1} | = 24x + 8 - 104x^{2} - 84x + 28$$

$$= \int_{0}^{1} | = 24x + 8 - 10(4x^{2} + 8x + 6) = -140x^{2} - 84x + 28$$

$$= \int_{0}^{1} | = -140 - 10(4x^{2} + 8x + 6) = -140x^{2} - 84x + 28$$

$$= \int_{0}^{1} | = -140 - 10(14x^{2} - 10) = -140x^{2} - 84x + 28$$

$$= \int_{0}^{1} | = -140 - 10 = -140 - 10 = 28$$

$$= \int_{0}^{1} | = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -10 = -$$