0 @ f(Sin(n's')) = f(ns) $\Rightarrow cos(n's') \cdot f(n's') = \chi f(s) + 9 f(x)$ COS(x"5)[2x. £(5)+5/£(x")] = 21. £x + 5.1 cos(xx)[x.24.dy + y.2n] = ndy + y 2 n'y cos(n'y) dy + 2xy cos(n'y) - n dy = y =) $\frac{dy}{dn} \left[\frac{2\pi y}{2\pi y} eas(\pi^y \pi^y) - \pi \right] = y - 2\pi y' eas(\pi^y \pi^y)$ $\Rightarrow \frac{Jy}{2\pi y} = \frac{y - 2\pi y' \cos(\pi'y')}{2\pi y' \cos(\pi'y') - x}$ (b) dy = In [(2x+7) Sin(5x) ln(5x)] = (2x+7) Sin(5n). \frac{1}{5x}.5+(2x+7)./u(5n).25in(5n)in(5n) .008(5n).(5) + 5in(5n) lu(5n). (4n)

$$\begin{array}{lll}
20 & \int_{e}^{5} \cos \theta d\theta & put \\
&= \int_{e}^{4} du \\
&= \int_{e}^{4} \cot \theta + C \\
&= \int_{e}^{3} \cot \theta + C \\
&= \int_{12}^{28} \cot \theta du
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put u= somo da put u= x+4x+7 du=(2n+4) dx =) du=2(n+2) dx $\frac{du}{d(n+2)}$ $\frac{du}{d(n+2)}$ 72 UL 1 12 3 28