3.
$$\int x \cos(5x) dx$$
 $\int fg' = fg - \int fg'$
= $\chi \cos(5x) - \int \cos(5x) dx = \chi \sin(5x) - \int 1.8$
= $\chi \sin(5x) + \cos(5x) + ($
4. $\int \chi e^{2x}dy$
= $5\chi \cdot e^{.2x} - \int \int e^{.2x} dx$
= $5\chi \cdot e^{.2x} - \int e^{.2x} dx$
= $\chi e^{.2x} - \int e^{.2x} dx$

Z (X-1) (- (05(TX)) + SIN (TX) + (

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7.
$$\int (x^{2}+2x) \cos x \, dx$$

= $(x^{2}+2x) \sin x - \int (2x+2) \sin x \, dx$

= $(x^{2}+2x) \sin x - (2\cdot -\cos x - 5 -\cos x)$

= $(x^{1}+2x) \sin x - (-2\cos x) + \sin x$

= $(x^{1}+2x) \sin x - (-2\cos x) + \sin x$

9. $\int f^{2} \sin \beta f \, df$

= $\int f^{2} \left(-\cos \beta f \right) + \int \left(-\cos \beta f \right) \, df$

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= \int

V=1, V= arctm(4+), V = 1+(4+)2.4 11.5 arctin (4+) Et] Ilk. = 4 f (-4+) (-4+ (1+4+) (8+)(4)- $\frac{1}{4} \int \frac{1}{4} \int \frac{1}$ \$ (arctan (34+))+ SFg=76-96 p 5 In (p) 2p SUV=UV-50'V & po In(p)-1-6 po - 5 1 1 1-6 pc = S P Jp 5 + sec2 (2+) 2p = -\frac{1}{36}p^6\pi + \frac{p6}{6}.\lambda(p) $\frac{1}{2} + \frac{\tan(2t)}{2} - \frac{\tan(2t)}{2} + \frac{\tan(2t)}{2} = \frac{1}{4} \frac{\sin(2t)}{\cos(2t)} = \frac{1}{4} \frac{1}{4} \frac{\sin(2t)}{\cos(2t)} = \frac{1}{4} \frac{1}{4} \frac{1}{4} \frac{\sin(2t)}{\cos(2t)} = \frac{1}{4} \frac{$ = + · tan (2+)

SUN'=UN-SU'N >> X (OS (JCX) dro) > (x+t)(e-1) dx - [(4)(1)-(6)-(1))

= (x+1)(-e-x) - (2x)(ex) - e-x

= (x+1)(-e-x) - (2x)(ex) - e-x

= (x+1)(-e-x) - (2x)(ex) - e-x $(x^2+1)(e^{-x}) dx = (2)(-e^{-1})-(2)(e^{-1})-e^{-1}$ 27.10(3) - 1.0) X. SIN(TLX) - } SIN(TLX) of wary it's definite. Zx + (05(T/2)

-+· sincet) - +2 - cos(2t) - >2+· -cos(2t) >+ + (05(24) - (+ - SIN (2+) - \ DOC-SIN(24))) f 5m2+ = (273-10+0