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	X = -2e	10+4(t	03+ 65	-e1,	$y = \frac{e_1}{2} +$	e2-3e16	, y=<(x,y) 6-2=5,5
	C2510 -	(x,y)	(x	(y) = (	-2)-(-3)+1	$(-1)\cdot\frac{1}{2}=1$	5-2-5,5
					1. (A) (B)	17/2/1	
	1 x1  = 54			= 5	(V-1)	,41	
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13 26  $X(t) = \cos^2 t$ ,  $y(t) = \sin 3t + \cos 3t$ , (a; b) = (-jt; jt), 2) (c;d) = (o; st).  $(x,y) = \int_{a}^{x(+)} y(+) dt$ 1)  $\int \cos^2 t (\sin 3t + \cos 3t) dt = \int \cos^2 t \sin 3t dt + \int \cos^2 t \cos 3t dt = \int \cos^2 t \sin 3t dt + \int \cos^2 t \cos 3t dt = \int \cos^2 t \sin 3t dt + \int \cos^2 t \cos 3t dt = \int \cos^2 t \sin 3t dt + \int \cos^2 t \cos 3t dt = \int \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^2 t \cos^2 t \cos^2 t \cos^2 t dt = \int \cos^2 t \cos^$ = 0 + 2 \frac{9t}{\cos^2 + \cos^3 + dt} = 2 \frac{(\cos^2 + \cdot \sin^3 t)}{3} + \frac{9t}{3} \frac{9t}{3} - 2\cos t \sin^4 dt} =  $= \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{24}{3} \int \sin 3t \cos t \sin t dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\sin 4t + \sin 2t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos^2 t \sin 3t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos^2 t \sin t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos t \sin t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos t \sin t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos t \sin t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos t \sin t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos t \sin t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \sin t) dt = \frac{2}{3}(\cos t \cos t) |_{0}^{3T} + \frac{2}{3} \int \sin t (\cos t \cos t) dt$  $+ \cos t - \cos 3t$ ) dt =  $\frac{2}{3} (\cos^2 t \sin 3t) | \sqrt{3} \int (\cos t - \cos 5t) dt =$  $=\frac{2}{3}\left(\cos^{2}t\sin^{3}t\right)/\sqrt[3t]{\frac{1}{3}}\left(\sin^{2}t-\frac{\sin^{2}st}{5}\right)/\sqrt[3t]{\frac{2}{3}}\cos^{2}t\sin^{3}t-\frac{\sin^{5}t}{15}$  $+\frac{\sin t}{3}\Big|_{0}^{9T} = \frac{2\cos^{2}t \sin 3t}{3} - \frac{\sin 5\pi}{3} + \frac{\sin \pi}{3} - \frac{2\cos^{2}o \sin o}{3} + \frac{\sin \pi}{3}\Big|_{0}^{9T}$  $+ \frac{\sin 0}{3} = 0 = 0 \times \text{ if } y \text{ opmorehallelle the } (9; 8)$  3t = 0 5t = 0  $2) \int \cos^2 t \sin 3t \, dt + \int \cos^2 t \cos 3t \, dt = \int \cos^2 t \sin 3t \, dt = 0$  $=\frac{1}{2}\int(\cos 2t+1)\sin 3t\,dt=\frac{1}{2}\left(\int\cos 2t\sin 3t\,dt\right)\sin 3t\,dt=$  $=\frac{1}{u}\int (\sin st + \sin t)dt - \frac{\cos t}{3}\int_{0}^{\pi} = -\left(\frac{\cos 5t}{20} + \frac{\cos 3t}{6} + \frac{\cos t}{4}\right)^{\frac{\pi}{2}}$  $= \frac{\cos 0}{20} + \frac{\cos 0}{6} + \frac{\cos 0}{4} - \frac{\cos \pi}{20} - \frac{\cos \pi}{6} - \frac{\cos \pi}{4} = 2\left(\frac{1}{20} + \frac{1}{6} + \frac{1}{4}\right) = \frac{14}{15}.$