

	Answer		Answer
1	-5	22	$-\frac{1}{2} \ln \csc 2x + \cot 2x + C$
2	DNE	23	$\frac{3\sqrt{3}}{4}$
3	$y = \frac{1}{x-5}, y = \frac{x^2+1}{x+3}$	24	$\ln e^x - 1 + C$
4	1/5	25	$-\frac{1}{6} e^{-3x^2} + C$
5	$-\frac{3x^2}{2\sqrt{1-x^3}}$	26	$f(x) = \sec(\pi x) - 1$
6	$(s)(s^2 - 1)^{3/2} (8s^3 - 3s + 25)$	27	1 - 2ln2
7	$\frac{1}{(x^2 + 1)^{3/2}}$	28	$\frac{e-1}{e}$
8	$\frac{1}{2\sqrt{x}(1+x)}$	29	$\frac{1 - \ln t}{t^2}$
9	$\sec^5 x \tan^3 x$	30	1/2
10	$y' = \frac{-(2x+3y)}{3(x+y^2)}$	31	16π
11	$y - 3 = 5(x - 1)$	32	$128\pi/5$
12	$y = 2(x - \pi)$	33	1/10
13	One relative min (2, -12)	34	$192\pi/5$
14	50, 25	35	6.076
15	$1/3x^3 - x^2 + 3x + C$	36	$56\pi/3$
16	$\frac{(1+2x)^5}{5} + C$	37	$\frac{1}{2} \ln x^2 - 4x + 8 + \arctan\left(\frac{x-2}{2}\right) + C$
17	$\frac{1}{7} \ln 7x - 2 + C$	38	$-\frac{2x+1}{4e^{2x}} + C$
18	$\frac{1}{6} \sin 6x + C$	39	$x \sin x + \cos x + C$
19	$\pi/6$	40	∞
20	-ln3		
21	$2\sqrt{\sin x} + C$		