

האינטגרל המסוים

תשובות

3.	4.	6.	15.	16.	17.	18.	28.	30.
$\frac{\pi}{6}$	$\frac{\pi}{3}$	1	$200\sqrt{2}$	0	0	0	$\frac{1}{\sin b^2} \mid \frac{2}{-\sin a^2} \mid \frac{3}{0}$	$\frac{1}{1} \mid \frac{2}{\frac{\pi^2}{4}} \mid \frac{3}{0}$

35.	38.	39.	40.	41.	42.	43.
$5/6$	$0.5(1 - \ln 2)$	π	4π	$2(e-1)/e$	1	$(4\pi - 3\sqrt{3})/6$

44.	45.	46.	47.	48.	66.	67.	68.
$1/6$	$\pi a^4 / 16$	$\frac{1}{\sqrt{2}} \ln \frac{9+4\sqrt{2}}{7}$	$2 - \frac{\pi}{2}$		$315 \frac{1}{26}$	$\frac{1}{2} \ln 3 - \frac{\pi}{2\sqrt{3}}$	$\frac{5e^3 - 2}{27}$

69.	70.	71.	72.	75.	76.	77.
$-66 \frac{6}{7}$	$-\frac{\pi}{12}$	$\frac{29}{270}$	$\frac{4\pi}{3} - \sqrt{3}$	$\frac{1}{6}$	$\frac{\pi^3}{6} - \frac{\pi}{4}$	$\frac{3}{5}(e^\pi - 1)$

115.

a	b	c
$\int_0^{\pi/2} \sin^{10} x dx < \int_0^{\pi/2} \sin^2 x dx$	$\int_0^1 e^{-x} dx < \int_0^1 e^{-x^2} dx$	$\int_0^\pi e^{-x^2} \cos^2 x dx > \int_\pi^{2\pi} e^{-x^2} \cos^2 x dx$

	202.	203.	204.	205.
	$a^2 / 3$	4.5	4.5	$9.9 - 8.1 \log e \approx 6.38$

206.	207.	208.	210.	211.	218.
$2 - \frac{1}{\ln 2} \approx 0.56$	$\frac{1}{3} + \frac{2}{\pi} \approx 0.97$	$\frac{\pi}{2}$	πab	$\frac{4}{3} a^3$	$(3\pi + 2) : (9\pi - 2)$