学籍番号 ( ) 氏名 ( )

н н .)		) [ ]
	(1)	$Pr(x) =_5 C_x (0.321)^x (1 - 0.321)^{5-x}$
1.	(2)	
		$2Var(x) = n\pi(1-\pi) = 5 \times 0.321 \times 0.679 = 1.09$
	(3)	0.400 0.350 0.323
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		1 5 0.321 0.213 0.341 0.200 0.200
		2 10 0.103 0.313 0.323 0.150 0.144 0.152
		3 10 0.033 0.461 0.152 0.100
		4 5 0.011 0.679 0.036
		5 1 0.003 1.000 0.003 0 1 2 3 4 5
2.	(1)	$1E(x) = n\pi = 2750 \times \frac{1}{500} = 5.5$
		$2Var(x) = n\pi = 5.5$
	(2)	$\Pr(x) = \frac{5.5^x e^{-5.5}}{x!}$
	(2)	$r_1(x) = \frac{1}{x!}$
	(3)	xf(x)
		0 0.004
		1 0.022
		2 0.062
		3 0.113
		4 0.156
		5 0.171
		6 0.157
		7 0.123 o.180 f(x)
		8 0.085 0.160 0.156 0.157
		9 0.052 0.140 0.123
		10 0.029 0.120 0.101
		11 0.014 0.085
		12 0.007 0.060 0.052
		13 0.003 0.040 0.022
		14 0.001 0.004 0.004 0.004 0.007 0.003 0.001 0.000
		15 0.000 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 x
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	(1)	$Pr(x \ge 80) = Pr\left(z \ge \frac{80 - 65}{9}\right) = Pr(z \ge 1.67) = 0.04746 : 4.7\%$
	(2)	$\Pr(x < 45) = \Pr\left(z < \frac{45 - 65}{9}\right) = \Pr(z < -2.22) = 0.01321 : 1.3\%$
3.	(3)	$z_{\alpha} = 1.29 = \frac{x - 65}{9}$
		$\therefore x = 76.61 \div 77  点$
	(4)	$z_{\alpha} = -1.65 = \frac{x - 65}{9}$
		$\therefore x = 50.15 \div 50  点$
	(1)	
		$2S_x^2 = \frac{\sum (x_i - \bar{x})}{n} = 196.19$
	(3)	$58.9 - 1.96 \times \sqrt{\frac{196.19}{20}} < \mu_x < 58.9 + 1.96 \times \sqrt{\frac{196.19}{20}}$
		$52.76126 < \mu_x < 65.03874$
		下限: 52.8 万円 上限: 65.0 万円
4.		工成 1 00.0 /311
		$\widehat{\mathbb{I}}\widehat{\sigma_x^2} = \frac{\sum (x_i - \bar{x})^2}{n - 1} = \frac{3923.8}{19} = 206.5158$
		2
		$58.9 - 2.093 \times \sqrt{\frac{206.5158}{20}} < \mu_x < 58.9 + 2.093 \times \sqrt{\frac{206.5158}{20}}$
		$52.1744 < \mu_x < 65.6256$
		下限: 52.2 万円 上限: 65.6 万円
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