

令和 7 年度 一般選抜 A 個別方式（第 1 日）数学解答

問題番号	小問	解答記号	正解
1	(1)	$\sqrt{\boxed{1}} - \boxed{2}$	$\sqrt{6} - 1$
	(2)	$\frac{\boxed{3}}{\boxed{4}}\pi$	$\frac{7}{4}\pi$
	(3)	$M = \boxed{5} \boxed{6}, N = \boxed{7}$	$M = 64, N = 8$
	(4)	商は $\boxed{8}x^2 - \boxed{9}x$, 余りは $\boxed{10}x^2 + \boxed{11}x$	商は $2x^2 - 3x$, 余りは $7x^2 + 3x$
	(5)	$\boxed{12} \boxed{13} \boxed{14}^\circ$	107°
2	(1)	$\sqrt{\boxed{15} \boxed{16}}$	$\sqrt{21}$
	(2)	$S = \boxed{17} \sqrt{\boxed{18}}, R = \sqrt{\boxed{19}}$	$S = 5\sqrt{3}, R = \sqrt{7}$
	(3)	$\frac{\boxed{20} \boxed{21} \sqrt{\boxed{22}}}{\boxed{23}}$	$\frac{20\sqrt{3}}{9}$
3	(1)	$\boxed{24} \boxed{25}$	84
	(2)	$\frac{\boxed{26}}{\boxed{27} \boxed{28}}$	$\frac{5}{42}$
	(3)	$\frac{\boxed{29} \boxed{30}}{\boxed{31} \boxed{32}}$	$\frac{37}{42}$
4	(1)	$t = \sqrt{\boxed{33}}, S = \boxed{34} + 2\sqrt{\boxed{35}}$	$t = \sqrt{2}, S = 4 + 2\sqrt{2}$
	(2)	$AB = \boxed{36}t, S = -t^3 - 2t^2 + 4t + \boxed{37}, t = \frac{\boxed{38}}{\boxed{39}}$	$AB = 2t, S = -t^3 - 2t^2 + 4t + 8, t = \frac{2}{3}$
	(3)	$\frac{\boxed{40} \boxed{41}}{\boxed{42}}$	$\frac{32}{3}$
5	(1)	$\frac{\boxed{43}}{\boxed{44}}\overrightarrow{OA} + \frac{\boxed{45}}{\boxed{46}}\overrightarrow{OB}$	$\frac{1}{3}\overrightarrow{OA} + \frac{1}{3}\overrightarrow{OB}$
	(2)	$\frac{\boxed{47}}{\boxed{48} \boxed{49}}$	$\frac{9}{10}$
	(3)	$\frac{\boxed{50}}{\boxed{51}}$	$\frac{3}{4}$
6	(1)	$a_2 = \boxed{52} \boxed{53}, a_n = \boxed{54}^n - \boxed{55}$	$a_2 = 15, a_n = 4^n - 1$
	(2)	$b_1 = \boxed{56}, b_n = n \cdot \boxed{57}^n$	$b_1 = 4, b_n = n \cdot 4^n$
	(3)	$\frac{(\boxed{58}n - 1) \cdot \boxed{59}^{n+1} + \boxed{60}}{9}$	$\frac{(3n - 1) \cdot 4^{n+1} + 4}{9}$