

令和2年度 工学部A方式(2/4) 数学解答

問題番号	小問	解答記号	正解
1	(1)	$\frac{\boxed{1} + \sqrt{\boxed{2} \boxed{3}}}{\boxed{4}}$	$\frac{5 + \sqrt{21}}{2}$
	(2)	$a < -\boxed{5}, \boxed{6} < a$	$a < -1, 7 < a$
	(3)	$\frac{\boxed{7}}{\boxed{8}}\pi \leq \theta \leq \frac{\boxed{9}}{\boxed{10}}\pi$	$\frac{1}{3}\pi \leq \theta \leq \frac{5}{3}\pi$
	(4)	$\frac{\boxed{11}}{\boxed{12} \boxed{13}}$	$\frac{7}{23}$
		$\frac{\boxed{14}}{\boxed{15} \boxed{16}}$	$\frac{7}{11}$
(5)	$a_1 = \boxed{17} \boxed{18}, d = -\boxed{19}, n = \boxed{20} \boxed{21}$	$a_1 = 50, d = -3, n = 17$	
2	(1)	$\boxed{22}$	3
	(2)	$\frac{\boxed{23} \sqrt{\boxed{24}}}{2}$	$\frac{3\sqrt{3}}{2}$
	(3)	$\boxed{25} \sqrt{\boxed{26}}$	$3\sqrt{2}$
3	(1)	$\boxed{27}$	2
	(2)	$\frac{\boxed{28} \boxed{29}}{\boxed{30}}$	$\frac{33}{4}$
	(3)	$\frac{\boxed{31} \boxed{32} \boxed{33}}{\boxed{34}}$	$\frac{175}{8}$
4	(1)	$\frac{t\vec{AB} + \vec{AC}}{t + \boxed{35}}$	$\frac{t\vec{AB} + \vec{AC}}{t + 4}$
	(2)	$t = \boxed{36}, \vec{AP} = \frac{\boxed{37}}{\boxed{38}}\vec{AD}$	$t = 4, \vec{AP} = \frac{5}{8}\vec{AD}$
	(3)	$\frac{\boxed{39}}{\boxed{40}}S$	$\frac{1}{2}S$
5	(1)	$\frac{\boxed{41}}{\boxed{42} \boxed{43}}$	$\frac{1}{27}$
	(2)	$\frac{\boxed{44} \boxed{45} \boxed{46}}{\boxed{47} \boxed{48} \boxed{49} \boxed{50}}$	$\frac{280}{2187}$
6	(1)	$(\boxed{51}, \boxed{52})$	(3, 5)
	(2)	傾きは $\boxed{53}$ で, y 切片は $\boxed{54}$	傾きは 1 で, y 切片は 1
	(3)	$\boxed{55}$	2
		$\boxed{56}$	4
(4)	$\frac{\boxed{57}}{\boxed{58}}$	$\frac{2}{3}$	