

2019 年度第 2 回 国際標準計算能力検定 レベル 9 模範解答

	配点			配点		
1	(1)	2	$\sqrt{15}$	(2)	2	$\sqrt{6}$
	(3)	2	$\sqrt{54}$	(4)	2	$9\sqrt{3}$
	(5)	2	$5\sqrt{5}$			
2	(1)	2	$x^2 - xy - 2y^2 + 3x + 3y$	(2)	2	$x^2 + 8x + 15$
	(3)	2	$x^2 - 14x + 49$			
3	(1)	2	$a(x + 3y + 6z)$	(2)	2	$(x - 7)(x - 5)$
	(3)	2	$(a + 8)(a - 8)$			
4	(1)	2	$x = \pm 6$	(2)	2	$x = \pm\sqrt{7}$
	(3)	2	$x = \pm 4$	(4)	2	$x = \pm\sqrt{3}$
	(5)	2	$x = -2 \pm \sqrt{13}$			

	配点			配点		
5	(1)	3	$3\sqrt{7}$	(2)	3	$2\sqrt{3}$
	(3)	3	$\frac{\sqrt{6}}{5}$	(4)	3	$\frac{\sqrt{23}}{10}$
	(5)	3	$4\sqrt{5}$	(6)	3	$\frac{3\sqrt{13}}{13}$
6	(1)	3	$7\sqrt{3}$	(2)	3	$3\sqrt{2}$
	(3)	3	$5\sqrt{3}$	(4)	3	$\sqrt{3}$
	(5)	3	$2\sqrt{15} + 2\sqrt{30}$			
7	(1)	3	$9x^2 - 9x - 4$	(2)	3	$\frac{1}{9}x^2 + \frac{1}{2}xy + \frac{9}{16}y^2$
	(3)	3	$36x^2 - 84xy + 49y^2$	(4)	3	$-9x^2 + 64$
	(5)	3	$-\frac{1}{9}n^2 + 25$			

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8	(1)	3	$(x + 4y)(x + y)$	(2)	3	$\frac{1}{3}(x + 6y)^2$
	(3)	3	$(x + \frac{y}{5})(x - \frac{y}{5})$	(4)	3	$a(x - 3)(x - 4)$
	(5)	3	$a(b + 2)(b - 2)$			
9	(1)	3	$x = 0, x = 5$	(2)	3	$x = -\frac{5}{2}, x = 3$
	(3)	3	$x = -\frac{4}{3}, x = 0$	(4)	3	$x = -3$
	(5)	3	$x = -7, x = 2$	(6)	3	$x = -4, x = 6$
10	(1)	3	$x = -4 \pm \sqrt{11}$	(2)	3	$x = \frac{3 \pm \sqrt{21}}{3}$
	(3)	3	$x = 4 \pm \sqrt{17}$	(4)	3	$x = -2, x = \frac{4}{5}$
	(5)	3	$x = \frac{5}{3}, x = 4$			

	配点			配点		
11	(1)	4	2	(2)	4	$6 - 2\sqrt{2} + 2\sqrt{3} - 2\sqrt{6}$
	(3)	4	$22 - 6\sqrt{2}$	(4)	5	$2\sqrt{5} - 2\sqrt{2}$
12	(1)	4	$5x + 10$	(2)	4	$15x^2 - 24x + 18$
	(3)	4	$x^2 + 2xy + y^2 + 8x + 8y + 16$			
13	(1)	5	$(a - 1)(a + 2)$	(2)	4	$(x + 2)(x + 13)$
	(3)	5	$(x + 4y + 3)(x - 4y + 3)$	(4)	4	5200
14	(1)	5	$x = -8, x = -3$	(2)	5	$x = 8, x = 9$
	(3)	5	$x = 2, x = 3$			
15	(1)	5	$x = 1, y = 2, z = 3$	(2)	5	$x = 3, y = -2, z = 1$