

11/22 (11) HW

一. 選擇

1.~5. CADCA 6.~9. CDCD

二. 填充

1. (1) $4\sqrt{5} - 3\sqrt{3}$ (2) $7\sqrt{2} + 6\sqrt{3}$ (3) 15 (4) $\frac{6+2\sqrt{2}}{7}$

2. (1) $(a+d)(b+c)$ (2) $z(2x+3)^2$ (3) $(2x-3)(x^2-2)$ (4) $(x+2)(x-2)(x+4)$

(5) $(x+a)(x-4)$ (6) $(x+1)(x^2+x+1)$ (7) $z(x-y)^2(x-y-2)$ (8) $(2x-3y-10)^2$

三. 填充

1. 40 2. $12+6\sqrt{2}$ 3. $\frac{9}{4}$ 4. $\frac{120}{13}$ 5. 10 6. 5 7. 12 8. 6

9. $(3xy+x-y)(3xy-x+y)$ 10. $(x^2+1)(x^2+1)(x+1)(x-1)$ 11. $\sqrt{2}+1$

12. $(a+b+z)(a+b-z)(a-b+z)$ 13. $(b-z)^2(a-1)$ 14. $4-2\sqrt{3}$

15. $(x+2y-4)(x-2y-4)$ 16. $(0, -15), 150$ 17. (1) $(x^2-2x+3)(x^2-2)$

(2) $(2x-3y+7)(2x-3y-7)$ 18. (1) $2\sqrt{2}$ (2) $7\sqrt{2} + \sqrt{58}$

一. 單選

1.~5. CADD B 6.~10. BADCC

二. 填充

1. $x=\sqrt{7}$, $y=12-\sqrt{5}$, $z=10\sqrt{2}$ 2. (1) $(x+3)(x-6)$ (2) $(y-3)(-4-3)$

3. (1) $x(-7x+a)$ (2) $25(x+y)(x-y)$ (3) $a^2(3a-1)^2$ (4) $(b-1)(a-b+1)$

4. 12 5. $\frac{11}{12}$ 6. $(a+3b)(a^2-3ab-1)$ 7. $7+3\sqrt{5}$ 8. $a > c > b$

三. 計算

1. (1) $-1+\sqrt{2}-2\sqrt{3}$ (2) 3 2. (1) $\frac{9}{11\sqrt{6}} - 2\sqrt{3} - \frac{1}{11\sqrt{2}}$ (2) $2\sqrt{15}$ 3. $5\sqrt{5} + \sqrt{65}$

4. $(3x-2)(13x-4)$ 5. 54 6. $\frac{\sqrt{14}}{14}$ 7. $2a^2-2ab+b^2$ 8. $(a+b)(ax+by+c)$

9. $10-3\sqrt{10}$ 10. $4x+2y-2$ 11. 10 12. $(x+y-2)(x-y+2)$ 13. $\frac{4}{3}\sqrt{6}$

14. (1) $(a-2b+5c)(x-3y)$ (2) $(xy+x-y+1)(xy-x+y+1)$ 15. $\frac{85}{6}$