

8/2 (11) 五晚 HW

1.~5. ACBAA 6.~10. ABCBD 11.~15. DBCCD 16.~20. ACBDC

21.~25. BDDBB 26.~30. DCABB

31. (1) $-1+4\sqrt{2}$ (2) $\sqrt{3}+9$ (3) $5\sqrt{10}$ (4) $2\sqrt{2}$ (5) $-\sqrt{2}+\sqrt{3}$ (6) $1+\sqrt{2}$

(7) $1-8\sqrt{3}$ (8) $\sqrt{6}-3\sqrt{5}$ 32. (1) $3+2\sqrt{2}$ (2) $8-3\sqrt{6}$ (3) 4 (4) -1

(5) $7+4\sqrt{3}$ (6) $4+2\sqrt{3}$ (7) $2\sqrt{2}+1$ (8) $8-2\sqrt{7}$ 33. 4 34. -2 35. (1) $2\sqrt{15}$

(2) $2\sqrt{111}$ (3) 11 (4) $\frac{21\sqrt{2}}{4}$ (5) $2\sqrt{5}$ (6) $\frac{\sqrt{6}}{6}$ 36. (1) $2\sqrt{2}-6\sqrt{3}$

(2) $2\sqrt{5}-5\sqrt{2}$ (3) $2+2\sqrt{2}+\sqrt{3}+\sqrt{6}$ (4) $5\sqrt{2}-\sqrt{5}-\sqrt{10}+1$

37. (1) $\frac{1}{2}$ (2) $\frac{\sqrt{3}}{6}$ (3) $\sqrt{3}$ (4) $\frac{\sqrt{6}}{12}$ (5) $2\sqrt{2}$ (6) $\frac{\sqrt{5}}{25}$ 38. (1) $\frac{\sqrt{6}}{3}$

(2) $\sqrt{10}$ (3) $\frac{\sqrt{6}}{2}$ (4) $\frac{4\sqrt{3}}{3}$ (5) $\sqrt{2}-1$ (6) $\sqrt{5}+1$ 39. (1) $\frac{2+\sqrt{2}}{2}$

(2) $\frac{\sqrt{3}-1}{2}$ (3) $\frac{\sqrt{7}-2}{3}$ (4) $\frac{5+\sqrt{5}}{20}$ (5) $\frac{2\sqrt{2}+1}{7}$ (6) $\frac{\sqrt{7}+\sqrt{5}}{2}$

40. (1) 7, -4 (2) 1, 1 41. (1) -20 (2) -1 (3) $7\frac{3}{4}$

42. (1) 7 (2) $5+2\sqrt{6}$ (3) $2\sqrt{2}-8$ (4) $8-5\sqrt{2}$ (5) 2 (6) $8+4\sqrt{3}$

43. (1) $\sqrt{5}$ (2) $\frac{1}{2}$ (3) 4