

Exercise A

1.

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|-------------------|---------------------|-------------------|
| (i) $4\sqrt{3}$ | (vi) $6\sqrt{6}$ | (xi) $50\sqrt{6}$ |
| (ii) $3\sqrt{2}$ | (vii) $21\sqrt{2}$ | |
| (iii) $3\sqrt{3}$ | (viii) $25\sqrt{2}$ | |
| (iv) $3\sqrt{5}$ | (ix) $12\sqrt{6}$ | |
| (v) $2\sqrt{5}$ | (x) $80\sqrt{2}$ | |

2.

- (i) $4\sqrt{2}$
- (ii) $11\sqrt{3}$
- (iii) $22\sqrt{5}$
- (iv) $-14\sqrt{2}$
- (v) $30\sqrt{5}$
- (vi) $34\sqrt{3} - 13\sqrt{2}$

3.

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|--------------------------|--------------------------|
| (i) $14 + 7\sqrt{2}$ | (ix) $36 + 28\sqrt{3}$ |
| (ii) $23 + 9\sqrt{3}$ | (x) $72 + 50\sqrt{2}$ |
| (iii) $8 + 4\sqrt{5}$ | (xi) $39 + 27\sqrt{2}$ |
| (iv) $13 + 3\sqrt{5}$ | (xii) $62 - 10\sqrt{5}$ |
| (v) $12 - 5\sqrt{2}$ | (xiii) $34 - 23\sqrt{2}$ |
| (vi) $35 - 12\sqrt{3}$ | (xiv) $-30 + \sqrt{3}$ |
| (vii) $22 - 8\sqrt{7}$ | (xv) $43 - 14\sqrt{5}$ |
| (viii) $29 - 11\sqrt{5}$ | (xvi) $30 - \sqrt{7}$ |