

## Answers

- Q1**
- |    |                       |    |                       |    |                       |
|----|-----------------------|----|-----------------------|----|-----------------------|
| a) | $(x + 1)^2$           | b) | $(x + 3)^2$           | c) | $(x - 3)^2$           |
| d) | $(x + 5)^2$           | e) | $(x - 4)^2$           | f) | $(x - 6)^2$           |
| g) | $(x + \frac{3}{2})^2$ | h) | $(x + \frac{5}{2})^2$ | i) | $(x - \frac{7}{2})^2$ |
- Q2**
- |    |                  |    |                  |    |                   |
|----|------------------|----|------------------|----|-------------------|
| a) | $(x + 1)^2 + 6$  | b) | $(x + 2)^2 - 9$  | c) | $(x + 3)^2 + 3$   |
| d) | $(x + 4)^2 - 10$ | e) | $(x + 5)^2 - 26$ | f) | $(x + 6)^2 - 5$   |
| g) | $(x + 7)^2 - 9$  | h) | $(x + 8)^2 + 16$ | i) | $(x + 9)^2 - 100$ |
- Q3**
- |    |                  |    |                  |    |                  |
|----|------------------|----|------------------|----|------------------|
| a) | $(x - 1)^2 + 2$  | b) | $(x - 2)^2 - 3$  | c) | $(x - 3)^2 - 2$  |
| d) | $(x - 4)^2 - 14$ | e) | $(x - 5)^2 - 25$ | f) | $(x - 6)^2 - 17$ |
| g) | $(x - 7)^2 - 52$ | h) | $(x - 8)^2 - 9$  | i) | $(x - 9)^2 - 55$ |
- Q4**
- |    |                                      |    |                                       |    |                                      |
|----|--------------------------------------|----|---------------------------------------|----|--------------------------------------|
| a) | $(x + \frac{3}{2})^2 - \frac{5}{4}$  | b) | $(x + \frac{1}{2})^2 + \frac{7}{4}$   | c) | $(x + \frac{5}{2})^2 - \frac{37}{4}$ |
| d) | $(x + \frac{3}{2})^2 - \frac{9}{4}$  | e) | $(x + \frac{7}{2})^2 - \frac{65}{4}$  | f) | $(x + \frac{9}{2})^2 - \frac{49}{4}$ |
| g) | $(x + \frac{5}{2})^2 - \frac{41}{4}$ | h) | $(x + \frac{11}{2})^2 - \frac{97}{4}$ | i) | $(x + \frac{7}{2})^2 - \frac{85}{4}$ |
- Q5**
- |    |                                      |    |  |    |                                      |
|----|--------------------------------------|----|--|----|--------------------------------------|
| a) | $(x - \frac{3}{2})^2 + \frac{7}{4}$  | b) | $(x - \frac{1}{2})^2 + \frac{11}{4}$   | c) | $(x - \frac{5}{2})^2 - \frac{49}{4}$ |
| d) | $(x - \frac{3}{2})^2 + \frac{23}{4}$ | e) | $(x - \frac{7}{2})^2 - \frac{69}{4}$   | f) | $(x - \frac{9}{2})^2 - \frac{89}{4}$ |
| g) | $(x - \frac{5}{2})^2 - \frac{61}{4}$ | h) | $(x - \frac{11}{2})^2 - \frac{169}{4}$ | i) | $(x - \frac{7}{2})^2 + \frac{11}{4}$ |