



Quadratic Sequences

Warm up - Find the n^{th} term for the following linear sequences:

1. 7, 11, 15, 19

2. 4, 13, 22, 31

3. 5, 13, 21, 29

Stage 1 - Find the next term in the following sequences:

1. 14, 23, 34, 47, 62

5. 5, 7, 13, 23, 37

2. 12, 20, 30, 42, 56

6. 5, 2, -5, -16, -31

3. 4, 9, 16, 25, 36

7. 9, 9, 7, 3, -3

4. 13, 21, 31, 43, 57

8. 1, 5, 13, 25, 41

Stage 2 - Find the n^{th} term for each of the following sequences.

1. 9, 23, 45, 75, 113

5. 13, 21, 33, 49, 69

2. 14, 28, 50, 80, 118

6. 11, 23, 41, 65, 95

3. 16, 24, 34, 46, 60

7. 15, 31, 53, 81, 115

4. 13, 24, 39, 58, 81

8. 12, 21, 34, 51, 72

Stage 3 - Find the n^{th} term for each of the following sequences.

1. 4, 10, 22, 40, 64

5. -3, -5, -5, -3, 1

2. 5, 3, -3, -13, -27

6. 1, -4, -13, -26, -43

3. 1, 5, 13, 25, 41

7. 10, 8, 0, -14, -34

4. -3, -1, 7, 21, 41

8. 3, 0, -1, 0, 3