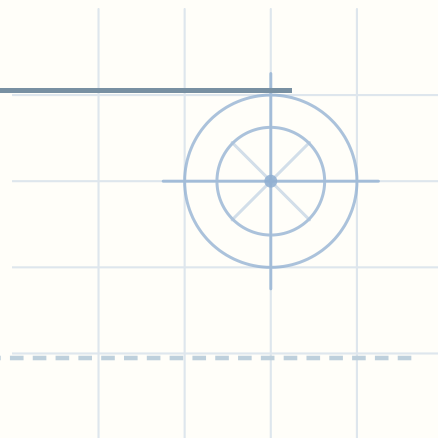


Name: \_\_\_\_\_

Date: \_\_\_\_\_

Find what each question asks about the sequence.



1  $-5, -3, -1, 1, \dots$  the 10th term = \_\_\_\_\_

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2  $3, -6, 12, \dots$  the 7th term = \_\_\_\_\_

---

3  $8, -32, 128, \dots$  the common ratio = \_\_\_\_\_

---

4  $-7, -14, -21, -28, -35, \dots$  the common difference = \_\_\_\_\_

---

5  $-8, -15, -22, -29, -36, \dots$  the common difference = \_\_\_\_\_

---

6  $1, 3, 9, \dots$  the 6th term = \_\_\_\_\_

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7  $8, 40, 200, \dots$  the common ratio = \_\_\_\_\_

---

8  $-5, -12, -19, -26, \dots$  the 25th term = \_\_\_\_\_

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# Arithmetic and geometric sequences · Arithmetic and geometric sequences — Answer key

1.  $-5, -3, -1, 1, \dots$  the 10th term = 13

2.  $3, -6, 12, \dots$  the 7th term = 192

3.  $8, -32, 128, \dots$  the common ratio =  $-4$

4.  $-7, -14, -21, -28, -35, \dots$  the common difference =  $-7$

5.  $-8, -15, -22, -29, -36, \dots$  the common difference =  $-7$

6.  $1, 3, 9, \dots$  the 6th term = 243

7.  $8, 40, 200, \dots$  the common ratio = 5

8.  $-5, -12, -19, -26, \dots$  the 25th term =  $-173$

