

Sequences Day 3 Homework
You may use a calculator!

Find the indicated term of each arithmetic sequence.

1) 28th term: $0, -4, -8, -12, \dots$

2) 15th term: $2, 3.5, 5, 6.5,$

Find the indicated term of each geometric sequence.

3) 10th term: $8, 40, 200, 1000, \dots$

4) 7th term: $2, 18, 162, 1458, \dots$

Find the explicit AND recursive formula for each sequence:

5) $1, 7, 13, 19, \dots$

6) $25, 125, 625, 3125, \dots$

7) $15, 30, 60, 120, \dots$

8) $3, 100, 197, 294, \dots$

Each rule represents a sequence. If the given rule is recursive, write it as an explicit rule. If the rule is explicit, write it as a recursive rule.

9) $a_n = 11(2)^{n-1}$

10) $f(1) = 2.5; f(n) = f(n-1) - 3.5$

Semester Exam Review: Linear Functions

1. Graph: $y = \frac{1}{5}x - 6$

2. Graph: $y = \frac{2}{3}x + 5$

3. Graph: $y = \frac{4}{3}x + 2$

4. Graph: $y = -4x - 1$

5. Graph: $2x + 3y = 12$

6. Graph: $y - 5 = 3(x + 1)$

