

Algebra 1 Bellwork Thursday, March 17, 2016

Describe the pattern in each sequence and find the next three terms.

1. 15, 22, 29, 36, ...

2. 6, -18, 54, -162, 486, ...

3. 1, 4, 9, 16, 25, ...

4. 64, 96, 144, 216, ...

5. 6, 7, 5, 8, 4, 9, 3, ...

6. $\frac{3}{2}, \frac{5}{4}, \frac{7}{8}, \frac{9}{16}, \dots$

7. 1, 2, 3, 5, 8, 13, ...

8. J, F, M, A, M, ...

9. f, s, t, f, f, s, ...

Algebra 1 Bellwork Thursday, March 17, 2016

Describe the pattern in each sequence and find the next three terms.

1. 15, 22, 29, 36, ... **43, 50, 57**

pattern: adding 7

3. 1, 4, 9, 16, 25, ... **36, 49, 64**

pattern:
the next perfect square
or adding next odd #

5. 6, 7, 5, 8, 4, 9, 3, ... **10, 2, 11**

pattern: add 1, minus 2, add 3, minus 4, ...

7. 1, 2, 3, 5, 8, 13, ... **21, 34, 55**

pattern: each term is the sum of the previous 2
Fibonacci Sequence

9. f, s, t, f, f, s, ... **s, e, n**

pattern
f first
s second
t third
f fourth
f fifth
s sixth

Answers

2. 6, -18, 54, -162, 486, ... **-1458, 4374, -13,122**
pattern: mult. by -3

4. 64, 96, 144, 216, ... **324, 486, 729**
pattern: mult. by 1.5

6. $\frac{3}{2}, \frac{5}{4}, \frac{7}{8}, \frac{9}{16}, \dots$ **$\frac{11}{32}, \frac{13}{64}, \frac{15}{128}$**
pattern: numerator add 2
denominator multiply by 2

8. J, F, M, A, M, ... **J, J, A**

pattern:
J January
F February
M March
A April
M May