

BLANK AM Rev 9.1-9.3, 10.3, 10.4 2nd 2019-2020.notebook

Write the first 5 terms of the sequence

$$11. \ a_n = \frac{n}{n+2}$$

9.1

$$7. \ a_n = 4n - 7$$

9.1

Find the sum.

$$67. \ \sum_{i=1}^5 (2i + 1)$$

9.1

$$73. \ \sum_{i=1}^4 2^i$$

9.1

Determine whether the sequence is arithmetic (or geometric). If it is arithmetic, then find the common difference d . If it is geometric, then find the common ratio r .

$$5. \ 10, 8, 6, 4, 2, \dots$$

9.2

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

9.2

$$7. \ \frac{1}{8}, \frac{1}{4}, \frac{1}{2}, 1, \dots$$

9.3

$$7. \ 1, 2, 4, 8, 16, \dots$$

9.2

$$5. \ 2, 10, 50, 250, \dots$$

9.3

Find a formula for a_n for the arithmetic sequence.

$$21. \ a_1 = 1, d = 3$$

$$25. \ 4, \frac{3}{2}, -1, -\frac{7}{2}, \dots$$

Write the first five terms of the geometric sequence.

$$13. \ a_1 = 4, r = 3$$

9.3

$$15. \ a_1 = 1, r = \frac{1}{2}$$

9.3

Find the sum of the finite geometric sequences

$$57. \ \sum_{n=1}^6 (-7)^{n-1}$$

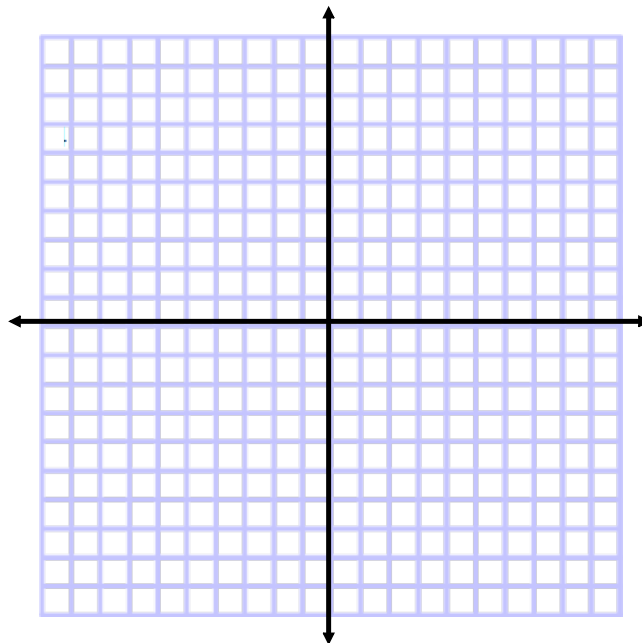
9.3

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Write the standard form of the following equation, and identify it as an ellipse or hyperbola.

Use the equation for the (ellipse or hyperbola) and find the following: center, vertices, foci, graph (include center, vertices, foci and if needed asymptotes).

29. $16x^2 + 9y^2 - 32x + 72y + 16 = 0$
10.3



37. $9x^2 - 16y^2 - 18x - 32y - 151 = 0$
10.4

