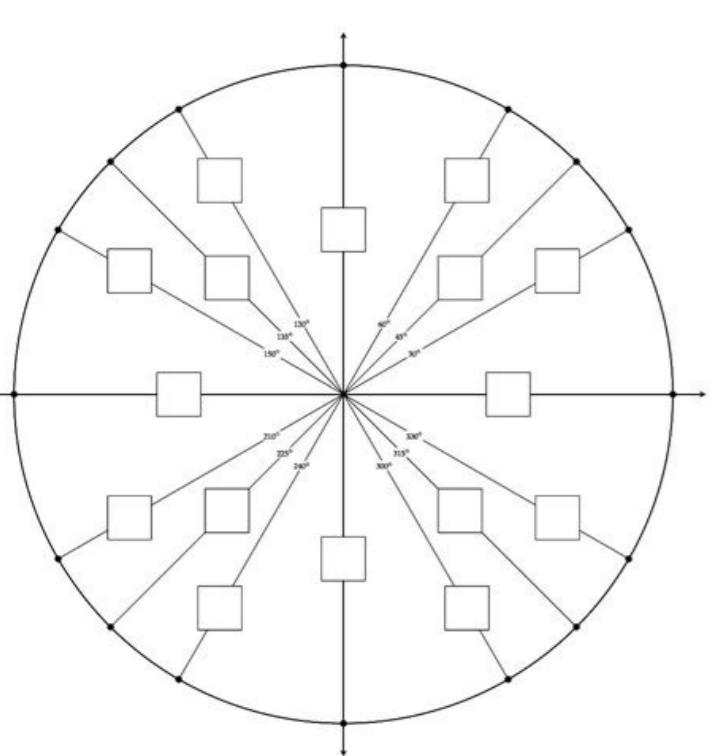


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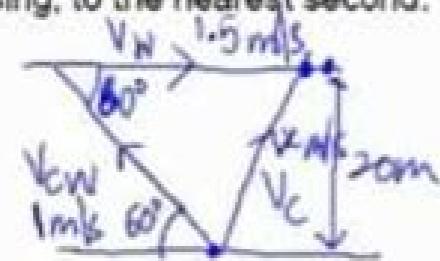
Example 1: Basic River Crossing

A canoeist can paddle at 1 m/s in still water. He wants to cross a river 20 m wide. The river is flowing at 1.5 m/s due east between straight parallel banks. He heads upstream in a direction making an angle of 60° with the bank. Find

- (a) his resultant velocity
- (b) the time taken for the crossing, to the nearest second.

$$V_{CW} = 1 \text{ m/s}$$

$$V_W = 1.5 \text{ m/s}$$



$$X^2 = 1.5^2 + 1^2 - 2(1.5)(1)\cos(60^\circ)$$

$$X = 1.32 \text{ m/s}$$

Kelly Smith

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Chicago, Illinois 60640
(773) 907-8660
smith@yahoo.com

Harold Jones
VP Sales
Raconteurs
555 N. Michigan Avenue
Chicago, IL 60610

Dear Mr. Jones:

I am interested in joining your organization in sales or a related position. The enclosed resume will outline my experience and achievements. I will be happy to provide references or further information at your request.

As my resume indicates, I have demonstrated strong skills building relationships with key corporate accounts while also directing various marketing efforts, including retail operations which require an ability to merchandise. My current goal is to transfer what I have learned to an area that is my passion: the fashion and apparel industry.

Why will I be successful in this industry? Enthusiasm. Much of my free time is spent reading industry publications (*Vogue*, *InStyle*), watching *Style* on E TV, and exploring the internet to find the latest trends and newest designers. Beyond this interest and energy, I also offer strong business skills, ranging from the ability to build relationships with corporate clients to hands-on experience in retail operations. I have opened facilities and presented new services offerings. Most of all, you will find that I am a self-motivated professional who is willing to travel any distance and make every effort to achieve her goals. I am confident that this combination of attitude, skill, and experience will make me a valuable member of your sales team.

I offer you the following qualities:

- **Customer Centered:** Provide service to each customer that is personal, fast, and efficient.
- **Persistence:** Demonstrate a positive attitude in the face of challenges and an ability to overcome obstacles.
- **Personality:** Disciplined performer who focuses on results.

Realizing that this summary cannot fully communicate my potential contribution, I would appreciate the opportunity to speak with you personally.

Thank you for your consideration. I look forward to speaking with you soon.

Sincerely,

Kelly Smith
enclosure

For each of the following sequences, find the value of t_1 , t_5 , and t_{10} . State whether the sequence is arithmetic, geometric or neither.

1. 2, -2, 2, -2, ...
 2. 100, 90, 80, 70, ...
 3. 3, -9, 27, -81, ...
 4. 80, 40, 20, 10, ...
 5. 2, 5, 10, 17, ...
 6. 1, 5, 9, 13, ...

Find the first four terms of the following sequences. State whether the sequence is arithmetic, geometric or neither.

7. $t_1 = 10$ and $t_n = 2t_{n-1} - 5$

8. $t_n = n - \frac{1}{n}$

9. $t_n = 2n + 3$

10. $t_n = 5^n$

11. $t_1 = 5$; $t_2 = 8$; $t_n = t_{n-1} + t_{n-2}$

12. Find x if the sequence $1, 5, 2x+3, \dots$ is (a) arithmetic and (b) geometric.

13. Find x if the sequence $1, x, \frac{2}{3}x, \dots$ is (a) arithmetic and (b) geometric.

LESSON **11.5** **CONTINUED**

NAME _____ **DATE** _____

Reteaching with Practice

For use with pages 681–687

Exercises for Example 2

Write a recursive rule for the arithmetic sequence.

$a_1 = 2$	$a_1 = 0$	$a_1 = -3$	$a_1 = 12$
$d = 4$	$d = -2$	$d = 1$	$d = -4$

EXAMPLE 3 **Writing a Recursive Rule for a Geometric Sequence**

Write a recursive rule for a geometric sequence with $a_1 = 2$ and $r = -3$.

SOLUTION

Use the fact that you can obtain a_n in a geometric sequence by multiplying the previous term by the constant ratio, r .

$$\begin{aligned}a_n &= r \cdot a_{n-1} \\&= -3a_{n-1}\end{aligned}$$

A recursive rule for the sequence is $a_1 = 2$, $a_n = -3a_{n-1}$.

Exercises for Example 3

Write a recursive rule for the geometric sequence.

$a_1 = 3$	$a_1 = 10$	$a_1 = -2$	$a_1 = -1$
$r = 8$	$r = \frac{1}{2}$	$r = 0.3$	$r = -2$

EXAMPLE 4 **Writing a Recursive Rule**

Write a recursive rule for the sequence 2, 6, 10, 14, 18, . . .

SOLUTION

Notice that the common difference of the terms is 4. This tells you the sequence is arithmetic. Therefore, each term is obtained by adding 4 to the previous term.

A recursive rule is given by:

$$a_1 = 2, a_n = a_{n-1} + 4.$$

Exercises for Example 4

Write a recursive rule for the sequence.

13. 1, 2, 4, 8, 16, . . .	14. 11, 23, 35, 47, 59, . . .
15. -12, -8, -4, 0, 4, . . .	16. 1, -3, 9, -27, . . .

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