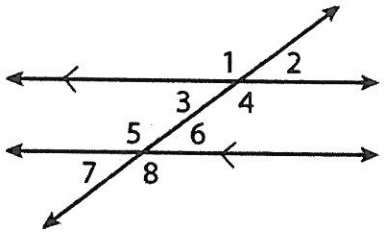
Name Answers Review! Date Class

MODULE 11

Angle Relationships in Parallel Lines and Triangles

Module Quiz: B

Use the figure for 1 and 2.



1. Which pair of angles are alternate exterior angles?

   A ∠7 and ∠4

   B ∠2 and ∠6

   (C) ∠8 and ∠1

   D ∠2 and ∠8

2. Which of these angles is **not** congruent to ∠5?

   A ∠8 obtuse

   C ∠1 obtuse

   (B) ∠6 acute

   D ∠4 obtuse

3. The measures of three angles of a triangle are given by $(8x - 5)°$, $(2x)°$, and $(3x - 10)°$. What is the measure of the largest angle?

   A 15°

   C 35°

   (B) 115°

   D 95°

4. Which of the following linear equations is shown by the table below?

x	0	2	4	7	9	12
y	1	5	9	15	19	25

   (A) $y = 2x + 1$

   B $y = x + 2$

   C $y = 3x - 1$

   D $y = 2x - 1$

5. Which of the following equations shows a proportional function?

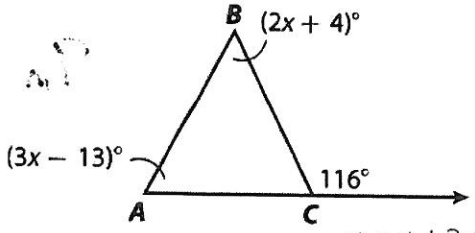
   A $y = x + 3$

   B $y = 2x - 1$

   C $y = x - 2$

   (D) $y = 4x$ ← y-intercept = 0

6. What is the measure of ∠A in the triangle below?



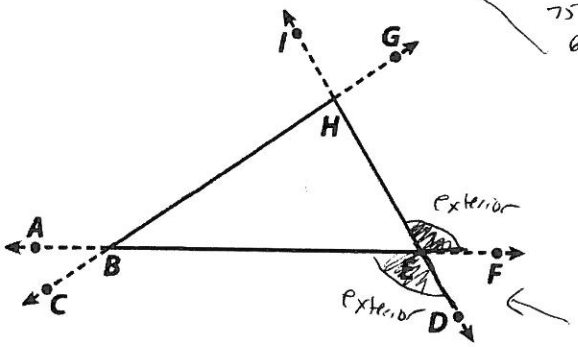
   A 116°

   B 25°

   (C) 62°

   D 54°

7. Which of the following is **not** an exterior angle of triangle *BHE*?



   A ∠GHE

   B ∠ABH

   C ∠DEB

   (D) ∠FED

Just an angle formed from exterior angles

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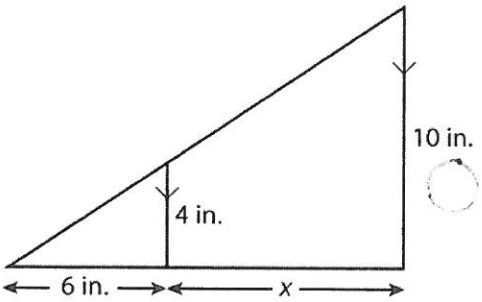
8. What is the measure of x?



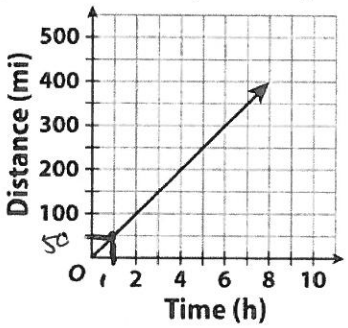
9 in

Use the table and graph for 9 and 10.

Brad Driving

Time (h)	3	4	6	7	9
Distance (mi)	144	192	288	336	432

Ashley Driving



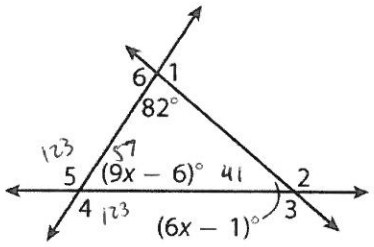
9. The table and graph show the time and distance Brad and Ashley each drove. Which driver drove at a faster rate?

50 > 48 Ashley

10. How many miles per hour faster did the faster driver drive?

2 mi/hr

Use the diagram for 11–14.



11. What is the measure of ∠1?

98°

12. What is the measure of ∠2?

139°

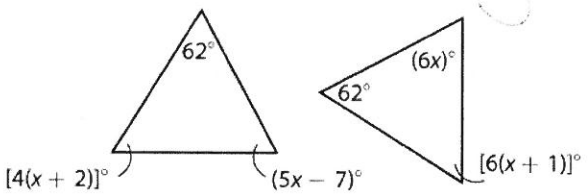
13. What is the measure of ∠4?

123°

14. What is the measure of ∠5?

123°

15. Are the triangles below similar? Explain your reasoning.



NO

60 62 58

62 62 56