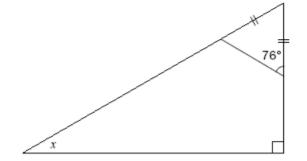
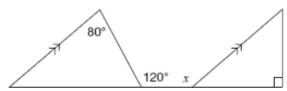
Consider the following diagram.



What is the value of x?

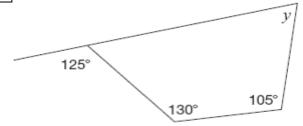
- a 14°
- **b** 28°
- **c** 62°
- d 76°
- 2 Consider the diagram below.



What is the value of x?

- a 80°
- **b** 120°
- c 140°
- d 170°

3 Consider the diagram below.



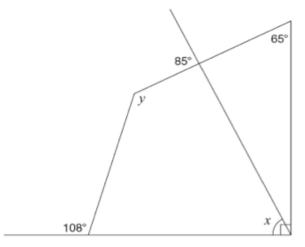
Which of the following is the value of y in the diagram?

a 55°

Geometry Skills

- **b** 70°
- c 125°
- d 130°
- What is the sum of the interior angles of a 12-sided regular polygon?
 - a 1080°
 - **b** 1800°
 - c 1980°
 - d 2160°
- A What's Missing?

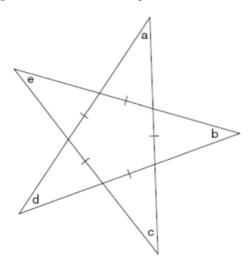
Consider the diagram below.



Determine the values of *x* and *y*. State your reasons.

B Twinkle Twinkle

Nicole notices the star design shown below on the pavement outside a movie theatre.



Determine the sum of the angle measures in the corners of this star: a + b + c + d + e. Justify your answer using geometric properties.