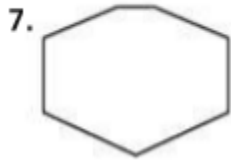p. 356 #7 – 9, 12, 15 – 17, 18, 20, 29, 34

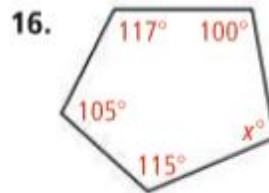**Find the sum of the interior angle measures of each polygon.**

7.

8. 35-gon

9. 14-gon
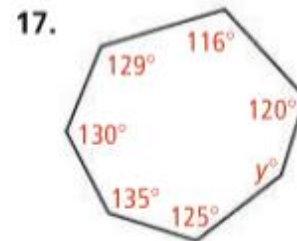
Find the measure of one interior angle in each regular polygon.

◆ **See Problem 2.**

12.

Algebra Find the missing angle measures.

◆ **See Problem 3.**

15. $2h°$ $2h°$ $h°$ $h°$

16. $117°$ $100°$ $105°$ $x°$ $115°$

17. $129°$ $116°$ $120°$ $130°$ $135°$ $125°$ $y°$
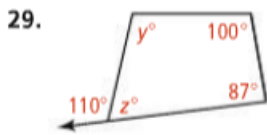
Find the measure of an exterior angle of each regular polygon.

18. pentagon   **19.** 36-gon   **20.** 18-gon

Algebra Find the value of each variable.

29. $y°$ $100°$ $110°$ $z°$ $87°$

30. (z

The measure of an exterior angle of a regular polygon is given. Find the measure of an interior angle. Then find the number of sides.

34. 18