

December 4th

The interior angle of a regular polygon exceeds the exterior angle by 160° .

Find the number of sides.

Interior + exterior = 180

$$\therefore e + e + 160 = 180$$

$$\therefore e = 10$$

Total of exterior angles = 360

$$\therefore \text{number of sides} = 360 \div 10 =$$

36 sides

(called a triacontakaihexagon)