Angles in Inscribed Right Triangles and Quadrilaterals- Step-by-Step Lesson
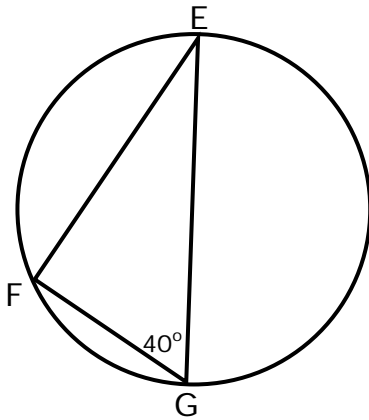
What is m∠E =?

Explanation:

Since EG is a diameter of the circle, ∠F is a right angle. So   EFG is a right triangle and ∠G and ∠E are complementary.

Write an equation setting the sum of their measures equal to 90°, and solve for m∠E.

m∠G + m∠E = 90°

   40°+ m∠E = 90° Plug in m∠G = 40°

      m∠E = 50° subtract 40°from both sides

So the answer is m∠E = 50°