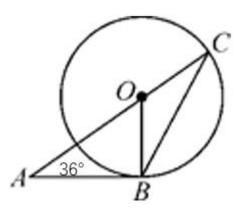


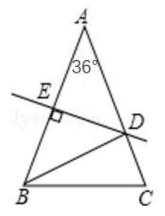
Q: As shown in the figure, AB parallel CD, EG bisects angle BEF, then angle 2 is equal to () Choices: A:50° B:60° C:65° D:90°

<think> Okay, let's see. The problem displays that AB is parallel to CD, and EG bisects angle BEF. We need to find the measure of angle 2. First, the image displays......Wait, angle 1 is at point F, so.....be supplementary to angle 1 because they are same-side interior angles. So angle BEF would be 180 - 50 = 130 degrees. Then, EG bisects angle BEF, so it splits angle BEF into two equal parts. Therefore, each of the angles formed by the bisector EG would be 130 / 2 = 65 degrees. Since angle 2 is one of those bisected angles, angle 2 should be 65 degrees. Looking at the choices, option C is 65°. So the answer should be C.
C.
(Answer)



Q: As shown in the figure, AB is tangent to circle O at point B, then angle C is equal to ()
Choices: A:36° B:54° C:60° D:27°

*think> Okay, let's see. The problem displays......I remember that the tangent to a circle is perpendicular to the radius at the point of contact......so the remaining angle at O must be 180 - 90 - 36 = 54 degrees......Now, the problem displays that angle C is an inscribed angle that subtends the same arc as the central angle O. Wait, the central angle subtended by arc OB would be angle O, which is 54 degrees. But angle C is an inscribed angle subtending the same arc......Remember that an inscribed angle is half the measure of the central angle subtending the same arc......So, angle C is 27 degrees. Looking at the choices, D is 27°. So the answer should be D.



Q: As shown in the figure, AB = AC, angle A = 36.0, the perpendicular bisector of AB intersects AC at D, then the degree of angle BDC is () Choices: A:72° B:36° C:60° D:82°

*think> Okay, let's see. The problem displays......
First, since AB = AC......Now, the perpendicular bisector of AB.....Let's call the midpoint of AB as point M. So BM = MA.....Wait, maybe I should consider the properties of the perpendicular bisector.....But wait, angle DBA is part of angle ABC......But wait, maybe I'm getting confused here. Let me try a different approach.....
Let's see. In triangle BDC.....But wait, that might not be directly applicable. Wait, maybe we can......which is option A. Wait, but let me check again. Alternatively, maybe using.....So the answer is 72 degrees, which is option A. That seems correct.