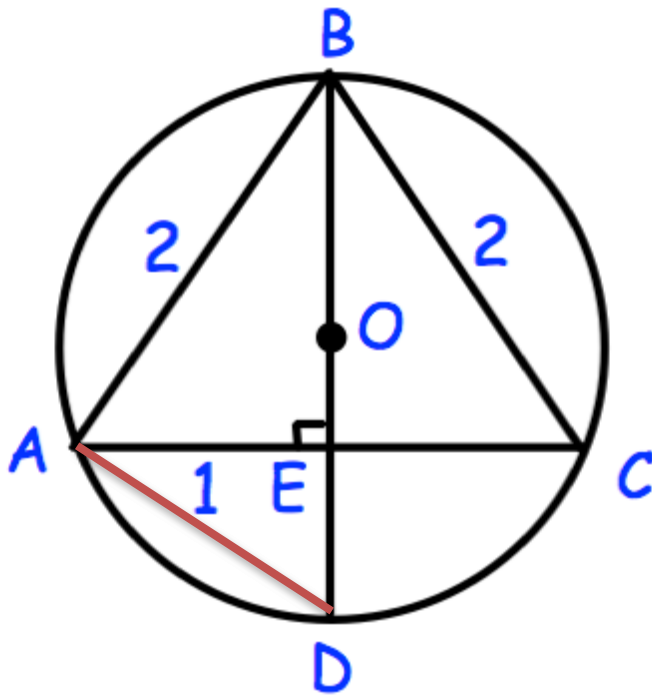


January 26th



In triangle ABD, angle BAD = 90°

(angles in a semi-circle are always right angles)

Angle ABD = 30° (since $ABC = 60^\circ$ and BD bisects it)

$$\cos ABD = \frac{2}{BD}$$

$$\text{Hence } B = \frac{2}{\cos 30^\circ}$$

$$\text{So } \mathbf{B} = \frac{4\sqrt{3}}{3}$$