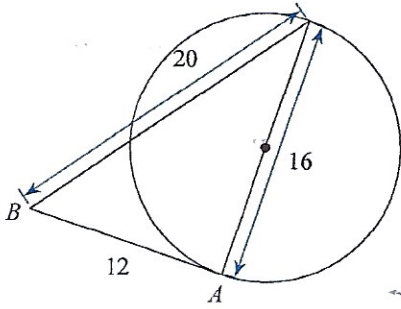


Determine if line AB is tangent to the circle.

1)



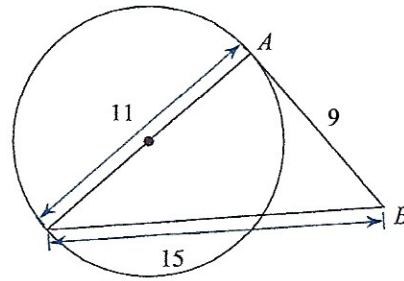
$$12^2 + 16^2 = 20^2$$

$$144 + 256 = 400$$

$$400 = 400$$

yes, tangent

2)



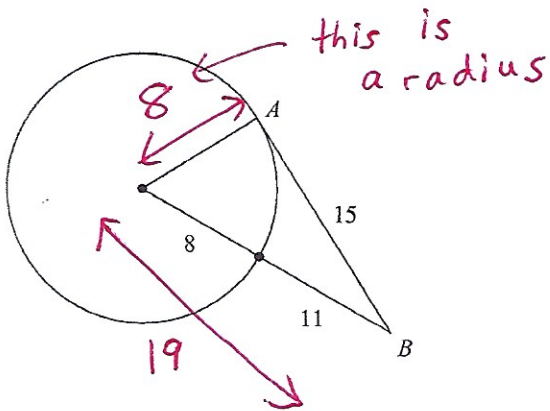
$$11^2 + 9^2 = 15^2$$

$$121 + 81 = 225$$

$$202 \neq 225$$

No, not tangent

3)



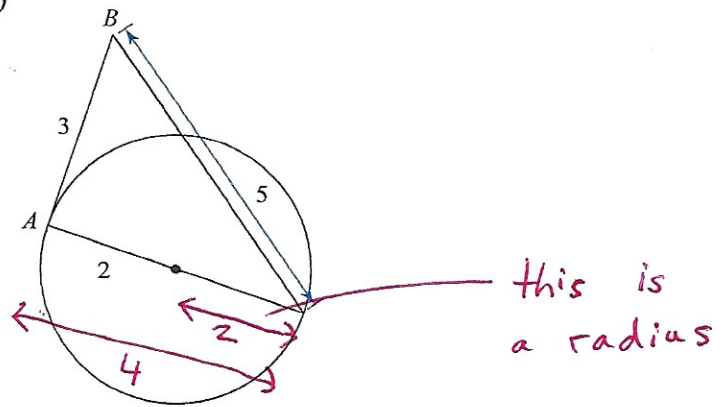
$$8^2 + 15^2 = 19^2$$

$$64 + 225 = 361$$

$$289 \neq 361$$

No, not tangent

4)



$$3^2 + 4^2 = 5^2$$

$$9 + 16 = 25$$

$$25 = 25$$

Yes, tangent