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![image-20200424095355317](https://cyaron.oss-cn-hangzhou.aliyuncs.com/img/image-20200424095355317.png)

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Statement 1: $AD = \frac{2}{b+c} \sqrt{bc p(p-a)}$

Statement 2: $AD^2 = AB \times AC - BD \times CD$

Statement 3: $AD = \frac{2AB \times AC \times \cos \frac{A}{2}}{AB+AC}$

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S1: □□□□□□□□ $AB^2 \times CD + AC^2 \times BD - AD^2 \times BC = AD \times BD \times CD$

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S2: □□□□□□

S3: □S1, S2□□

![image-20200424100339673](https://cyaron.oss-cn-hangzhou.aliyuncs.com/img/image-20200424100339673.png)