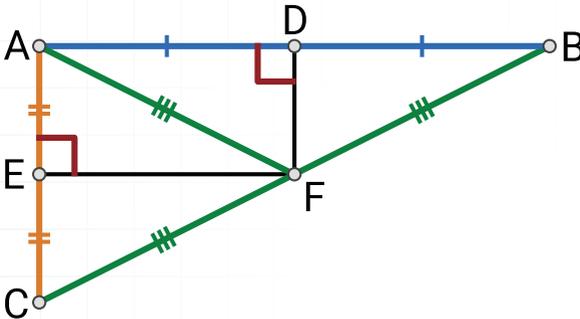




FULL PROOF

Practice open-ended Geometry proofs, taken from your own textbooks, with immediate detailed feedback.



GIVEN:

1. DF is a perpendicular bisector of AB
2. EF is a perpendicular bisector of AC

SHOW THAT:

$$\angle BAC = 90^\circ$$

	Statement	Reason
3	✓ AF=CF	A point on the perpendicular bisector is equidistant from the endpoints.
4	✓ AF=BF	A point on the perpendicular bisector is equidistant from the endpoints.
5	ⓘ $\angle BAC = 90^\circ$	In a right triangle, the median of the hypotenuse is half its length.

The statement is correct.

Sources: 3, 4

You also used:

Transitivity
Definition: median

♥ Did you mean the converse theorem?

[Report an error](#)

HOW IT WORKS

- Teachers choose exercises from their class's textbooks
- Students write complete step-by-step proofs
- Intuitive interactive diagram makes work fast and fun
- FullProof automatically checks student solutions
- Students get detailed feedback and personalized hints

Sign up for our upcoming pilot programs: signup@fullproof.io

In secondary schools, as Math subjects become increasingly advanced, the relevant problems become more and more complex. Checking students' solutions requires great amounts of time and effort. When just checking exams is exhausting, checking homework and other exercises is practically impossible.

So far, digital systems have mostly failed to embrace this complexity. Solutions to Math problems are usually supplied in simplified forms such as multiple-choice or a final numerical result. Feedback is limited to whether or not the result is correct.

WE'VE SOLVED THIS PROBLEM FOR GEOMETRY.

With FullProof, students write a complete step-by-step proof, using an interactive diagram and an equation editor. Each student can choose their own path to the solution, as long as it is correct and well-justified.

FullProof automatically checks students' solutions on-the-spot. It accepts any correct solution, and deeply analyzes faulty proofs to provide detailed feedback.

A natural byproduct of this process is fine-grained data on each student's work. This enables generating insights and suggestions for personalized teaching.

FullProof has been in heavy use in Israeli schools since the beginning of the 2018-2019 school year. We have already seen great results and an overwhelmingly positive reception by teachers, students and the Israeli Ministry of Education.

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