

Proof by Picture

Short-answer proofs by pictures.

Problem 1 Explain how a perpendicular bisector is different from an altitude. Use folding and tracing to illustrate the difference.

Problem 2 Explain how a median different from an angle bisector. Use folding and tracing to illustrate the difference.

Problem 3 Given a triangle, use folding and tracing to construct the circumcenter. Explain the steps in your construction.

Problem 4 Given a triangle, use folding and tracing to construct the orthocenter. Explain the steps in your construction.

Problem 5 Given a triangle, use folding and tracing to construct the incenter. Explain the steps in your construction.

Problem 6 Given a triangle, use folding and tracing to construct the centroid. Explain the steps in your construction.
