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SOLUTION of (2-14.a):

An affine linear function  $b \in \mathcal{P}_1(\mathbb{R}^2)$  is uniquely defined by specifying its values in three non-collinear points [Lecture  $\rightarrow$  § 2.4.3.3]. Since the triangle  $K$  must not be degenerate, the three midpoints of its edges cannot be collinear.

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