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ABSTRACT. We consider properties of a configuration with squares erected on sides  $AB$ ,  $BC$ ,  $CD$  and  $DA$  of the quadrangle  $ABCD$ . The well-known property is that the centers of these squares are vertices of the pseudo-square that has perpendicular diagonals of equal length. Besides this van Aubel theorem we shall discover many additional properties hidden in this configuration.

## 1. INTRODUCTION

In this note we consider some properties of a configuration when four equally oriented squares are built on sides of a quadrangle.

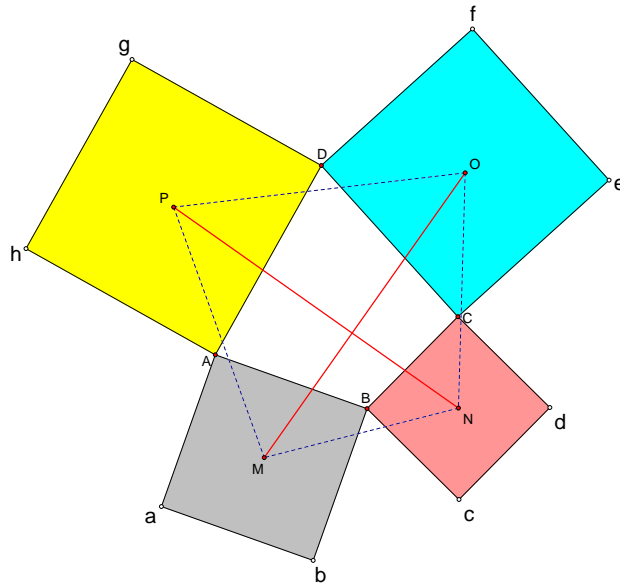


FIGURE 1. Squares built on sides of  $ABCD$ .

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