

Planimetria - mieszanka zadań ciekawych ZI-TK

zadanie 57

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3D

1 zadanie 57

$$|EF| = ?$$

$$a^2 + (2a)^2 = |AF|^2$$

$$5a^2 = |AF|^2$$

$$a\sqrt{5} = |AF|$$

$$|AE| \cdot |AF| = |AG|^2$$

$$|AE| \cdot a\sqrt{5} = a^2$$

$$|AE| = \frac{a}{\sqrt{5}} = \frac{a\sqrt{5}}{5}$$

$$|EF| = |AF| - |AE| = a\sqrt{5} - \frac{a\sqrt{5}}{5} = \frac{4a\sqrt{5}}{5}$$

