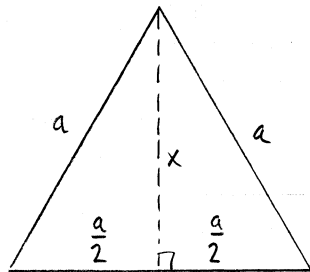


4267



Vi låter höjden vara  $x$

Pythagoras sats ger

$$a^2 = \left(\frac{a}{2}\right)^2 + x^2$$

$$a^2 = \frac{a^2}{4} + x^2$$

$$x^2 = a^2 - \frac{a^2}{4}$$

$$x^2 = \frac{4a^2}{4} - \frac{a^2}{4}$$

$$x^2 = \frac{3a^2}{4}$$

$$x = \pm \sqrt{\frac{3a^2}{4}}, \quad x > 0$$

$$x = \frac{\sqrt{3a^2}}{\sqrt{4}}$$

$$x = \frac{\sqrt{3} a}{2} \quad \square$$