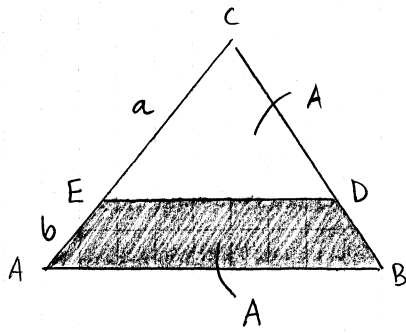


3253



Jämför $\triangle ABC$ och $\triangle EDC$. Areaskalan = (längdskalan)² ger

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

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

$$\frac{a+b}{a} = \pm\sqrt{2} \quad (a, b > 0)$$

$$a+b = \sqrt{2}a$$

$$b = \sqrt{2}a - a$$

$$b = a(\sqrt{2} - 1)$$

$$\frac{b}{a} = \sqrt{2} - 1$$

Svar: $\sqrt{2} - 1$