35

Bl övn 1-3

Standardformat

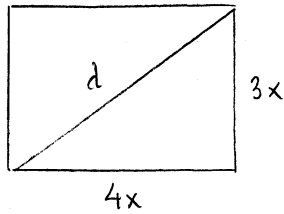Bredbildsformat

Pythagoras sats ger

$$d^2 = (4x)^2 + (3x)^2$$

$$d^2 = 16x^2 + 9x^2$$

$$d^2 = 25x^2$$

$$x^2 = \frac{d^2}{25}$$

$$x = (\pm)\sqrt{\frac{d^2}{25}} \quad , \; x > 0$$
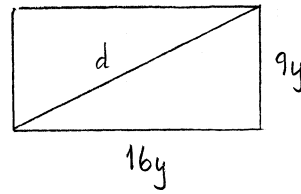
$$x = \frac{d}{5}$$

Pythagoras sats ger

$$d^2 = (16y)^2 + (9y)^2$$

$$d^2 = 256y^2 + 81y^2$$

$$d^2 = 337y^2$$

$$y^2 = \frac{d^2}{337}$$

$$y = \pm\sqrt{\frac{d^2}{337}}$$

$$y = \frac{d}{\sqrt{337}}$$

Arean

$$A_{st} = 3x \cdot 4x = 3\frac{d}{5} \cdot 4 \cdot \frac{d}{5}$$

$$= \frac{12d^2}{25} = 0{,}48\,d^2$$

Arean

$$A_{br} = 16\frac{d}{\sqrt{337}} \cdot 9\frac{d}{\sqrt{337}}$$

$$= \frac{16 \cdot 9\,d^2}{337} = \frac{144\,d^2}{337} \approx 0{,}427\,d^2$$

Svar: Standardformat