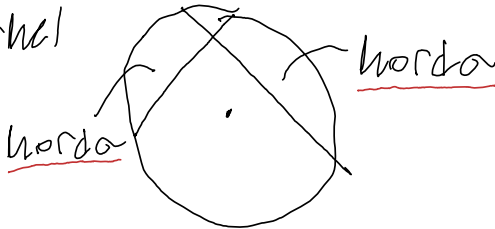


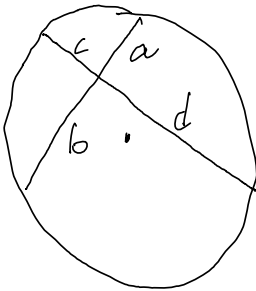
hordosatsen och bisektrissatsen

hordosatsen

En horda är en sträcka som går igenom en cirkel

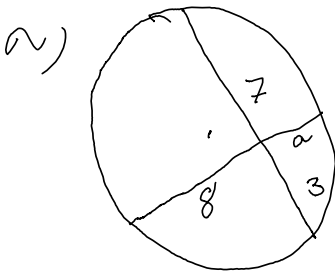


hordosatsen säger:



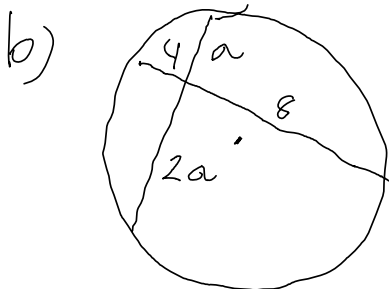
$$a \cdot b = c \cdot d$$

Ex) Bestäm sträckan a



$$a \cdot 8 = 7 \cdot 3$$

$$a = \frac{21}{8} \text{ i.e.}$$



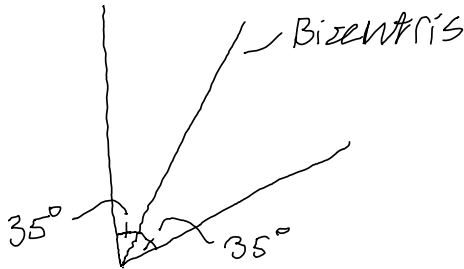
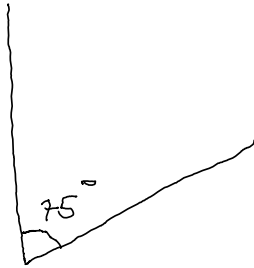
$$a \cdot 2a = 4 \cdot 8 \quad a \neq 4$$

$$2a^2 = 32$$

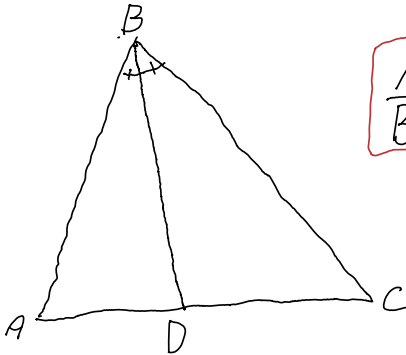
$$a^2 = 16$$

$$\text{Svar } a = 4 \text{ i.e.}$$

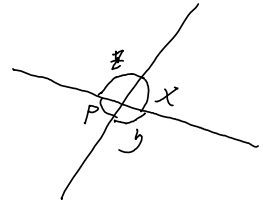
Bisectrissatsen En bisentris är en sträcka som delar en vinkel i två lika stora delar



Bisectrissatsen säger:



$$\frac{AB}{BC} = \frac{AD}{CD}$$



$$z + p = 180^\circ$$

$$x + y = 180^\circ$$

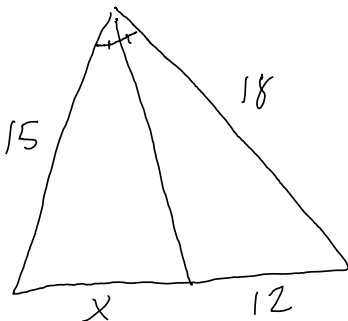
$$y + p = 180^\circ$$

$$x + z = 180^\circ$$

$$z = 180^\circ - x$$

$$p = 180^\circ - y$$

Ex) Bestäm sträckan x



$$\frac{x}{12} = \frac{15}{18}$$

$$x = \frac{15 \cdot 12}{18} = 10$$

Svar: $x = 10$ i.e