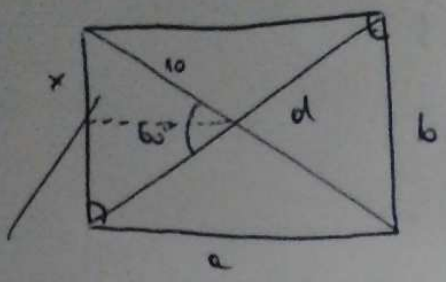
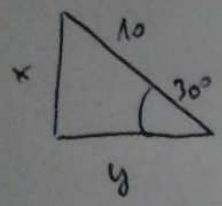
2.10



$d = 20$ cm



$\sin 30° = \frac{x}{10}$

$x = 10 \cdot \sin 30° = 10 \cdot \frac{1}{2} = 5$

$b = 2x = 2 \cdot 5 = 10$

$\cos 30° = \frac{y}{10}$

$y = 10 \cdot \cos 30° = 10 \cdot \frac{\sqrt{3}}{2} = 5\sqrt{3}$

$a = 2y = 2 \cdot 5\sqrt{3} = 10\sqrt{3}$

$Obv_{①} = 2a + 2b = 2 \cdot 10\sqrt{3} + 2 \cdot 10 =$

$= (20\sqrt{3} + 20) = 20(\sqrt{3} + 1)$

a) Sikais $\frac{Obv_{②}}{Obv_{①}} = \frac{5(\sqrt{3}+1)}{20(\sqrt{3}+1)} = \frac{1}{4}$ Sikais

b) $Obv_{②} = 10$

$\frac{Obv_{②}}{Obv_{①}} = \frac{10}{20(\sqrt{3}+1)} \cdot \frac{\sqrt{3}-1}{\sqrt{3}-1} = \frac{10(\sqrt{3}-1)}{20(3-1)} = \frac{10(\sqrt{3}-1)}{40} = \frac{\sqrt{3}-1}{4}$ Sikais