b) 200 m/s · 3.6

200 meter hvert sekund

Hvor mange meter på 3600 s (1 time)

200 · 3600 = 720 000 m/t : 720 km/t

200 · 3600/1000 : 200 · 3.6

okt. 19-12.43

b) 200 m/s → 3.6 · 200 = 720 km/t

(jmf formelark)

c) 80 km/t → m/s

80/3.6 = 22,22

80 km/t = 80 000 m/t = 80000 m / 3600 s

= 80/3.6 = 22,22 m/s

80 · 1000 m / 3600 s

1000/3600 = 1/3.6

okt. 19-12.32

d) Et fat koster 50,-
et fat 159 liter
en dollar 8 kr

pris per liter i kroner

Et fat koster $50 \cdot 8 = 400$ kroner

En liter koster $\frac{400}{159} = 2{,}52$ kroner per liter.

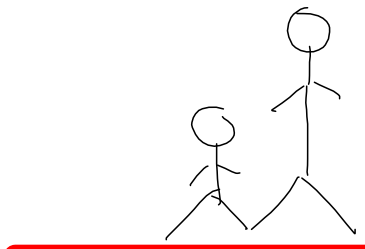
e) Arealet er $200\ m^2$

Maling er $0{,}25\ mm = \frac{0{,}25}{1000} = 0{,}000025\ m$

$V = 200 \cdot 0{,}000025 = 0{,}05\ m^3 = 0{,}05 \cdot 1000 = 50$ liter

$1000\ l = 1\ m^3$

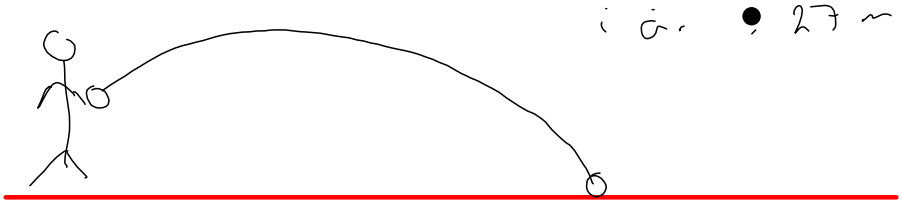
okt. 19-12.45



Kari er høyest
Dirichle sammenligning

Ola kari

i fjor : 23 m
i år : 27 m



okt. 19-12.54

b) 500 m på 37 s. c) 50 km/t

$\frac{500}{37} = 13{,}51\ m/s$ $\frac{50 \cdot 1000}{3600} = 13{,}89\ m/s$

$0{,}24\ h/s$

13,77 minutter $0{,}77 \cdot 60 = 46{,}2$

13:46:20

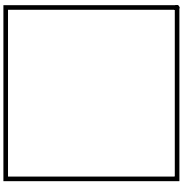
min sek hundredel

okt. 19-12.58

$327\,000\ km^2$ 5 mm regn

$V = 327\,000\,000\,000 \cdot 0{,}005$

$= 1\,635\,000\,000\ m^3$



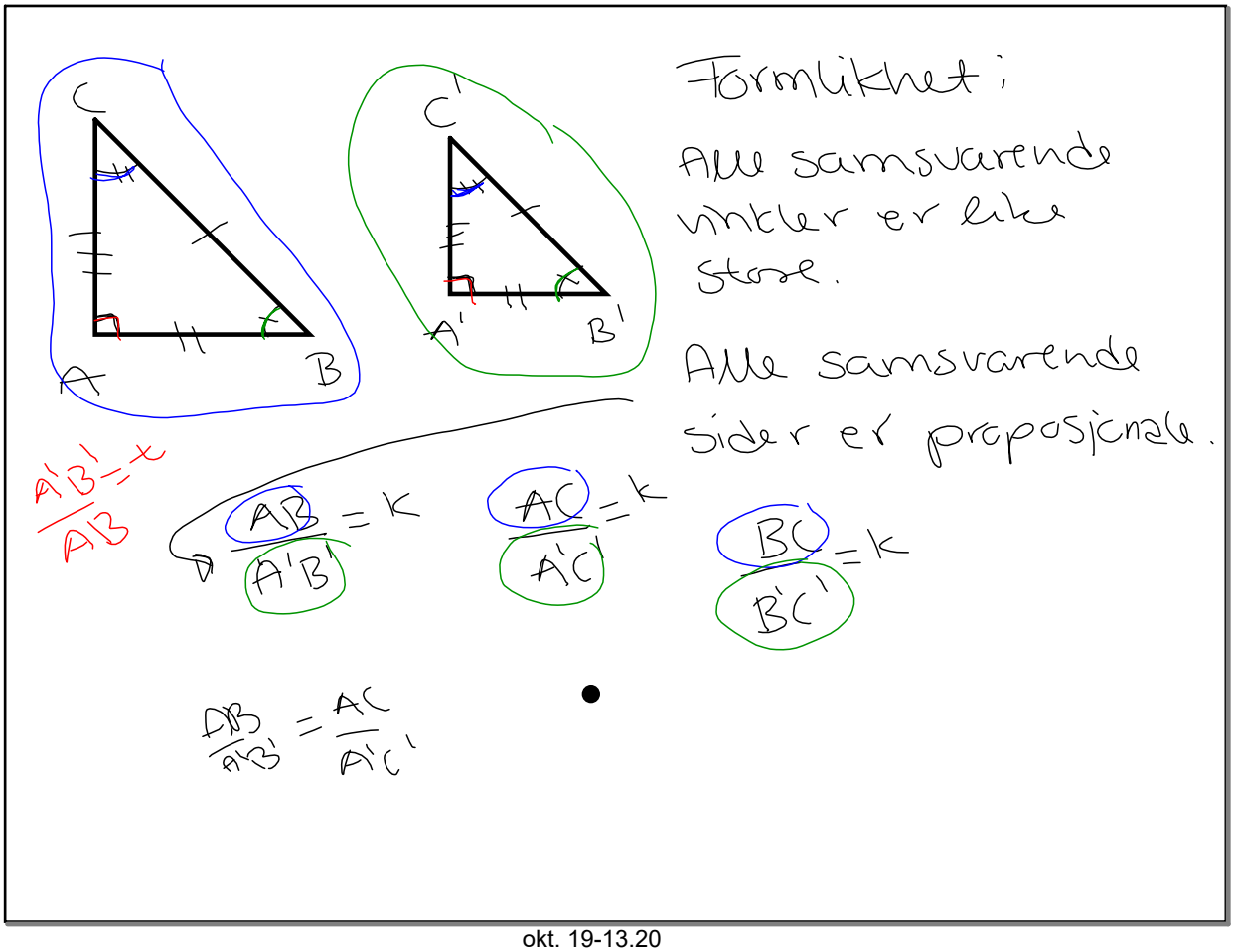
1000 m = 1 km

1000 m = 1 km

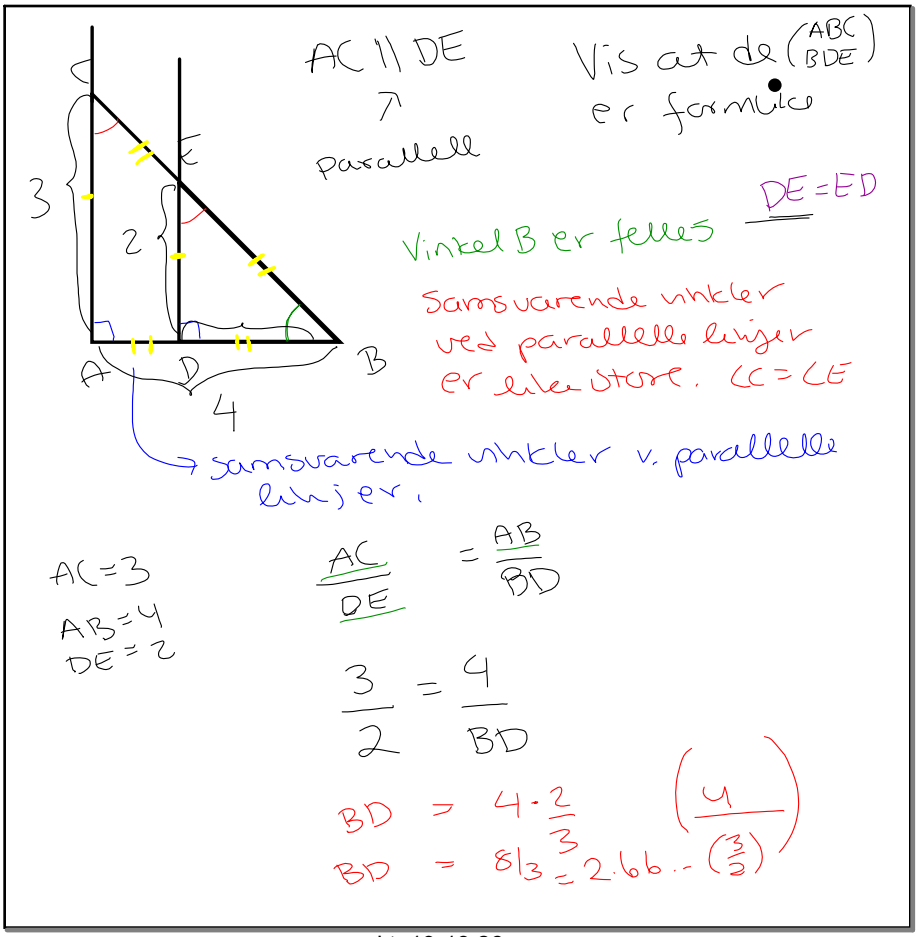
$A = 1\ km^2 = 1\,000\,000\ m^2$

5 mm = 0,005 m

okt. 19-13.07

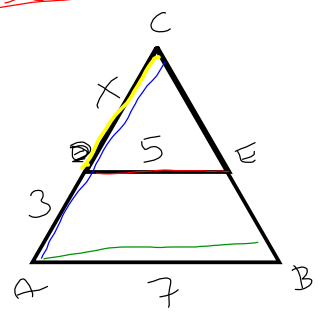


okt. 19-13.20



okt. 19-13.26

$\triangle ABC \sim \triangle CDE$



DC?

$\frac{DC}{AC} = \frac{DE}{AB}$

$\frac{DC}{DC+3} = \frac{5}{7}$

$DC = \frac{5}{7}(DC+3)$

$7DC = 5DC + 15$

$7DC - 5DC = 15$

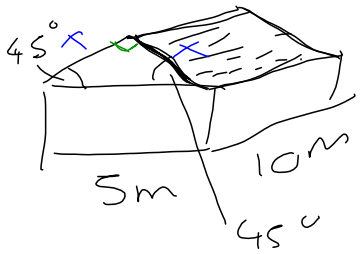
$2DC = 15$

$DC = 7{,}5$

okt. 19-13.33

Oppgave 2

likebeint trekant

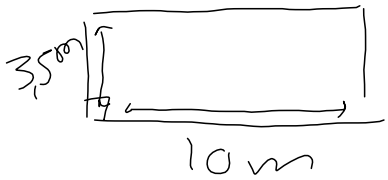


$x^2 + x^2 = 5^2$

$2x^2 = 25$

$x^2 = 12{,}5$

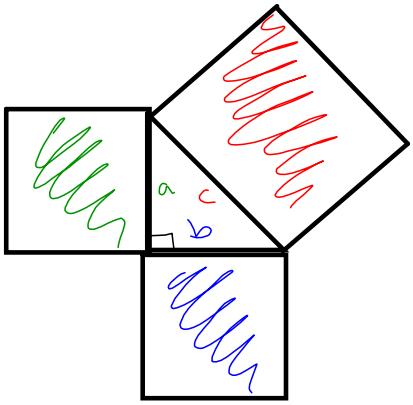
$x = \sqrt{12{,}5} = 3{,}5$



$A_\triangle = 3{,}5\,m \cdot 10\,m = 35\,m$

$A_{hele} = 35_m + 35_m = 70\,m^2$

okt. 19-13.38



c hypotenus

a
b katetter

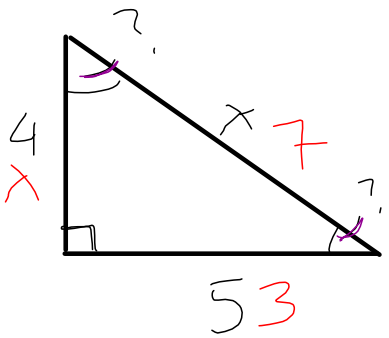
Pytagoras'

$c^2 = a^2 + b^2$

(ac°)

NB! gjelder kun for rettvinklede trekanter

okt. 19-13.44



$x^2 = 4^2 + 5^2$

$x^2 = 16 + 25$

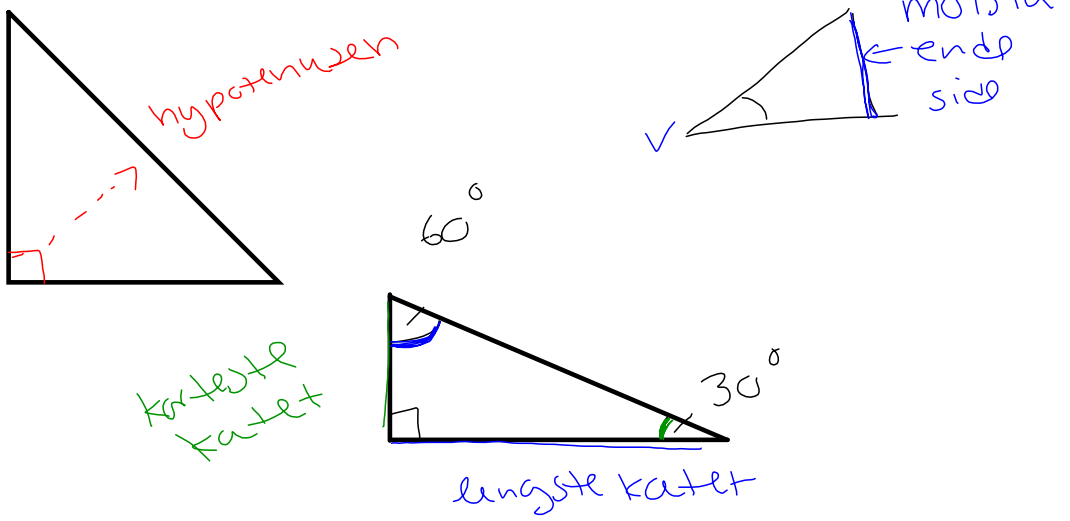
$x^2 = 41$

$x = \sqrt{41} = \ldots$

$7^2 = x^2 + 3^2$

$x^2 = 7^2 - 3^2$ osv.

okt. 19-13.46

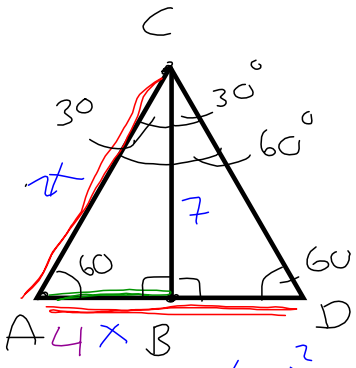


okt. 19-13.48

30-60-90°

ABC er en 30-60-90° trekant

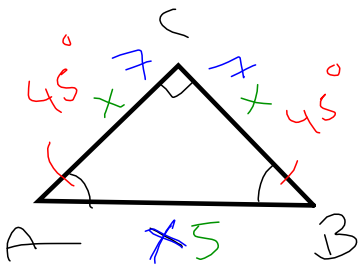
Hypotenus er dobbelt så stor/lang som minste katet.



$(2x)^2 = 2^2x^2 = 4x^2$

$4x^2$

okt. 19-13.50

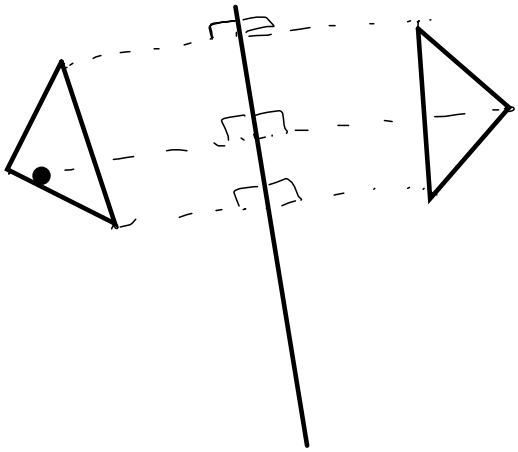


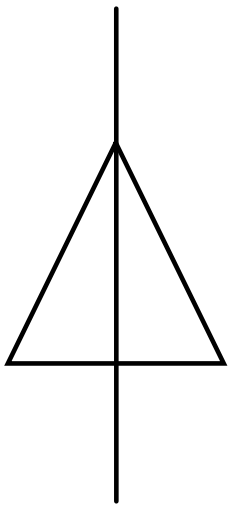
$5^2 = 2x^2$ $(x^2 + x^2)$

$x^2 = 7^2 + 7^2$

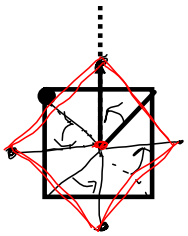
osv.

okt. 19-13.54





okt. 19-13.58



Rotasjonssymetri

↳ Når vi får samme figur ved å rotere et fast antall grader.

okt. 19-13.59