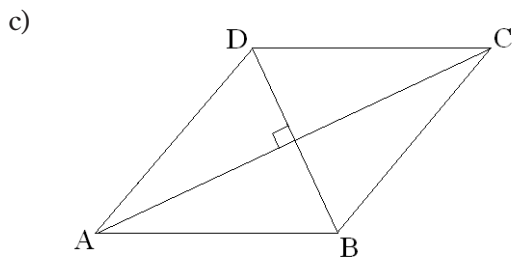
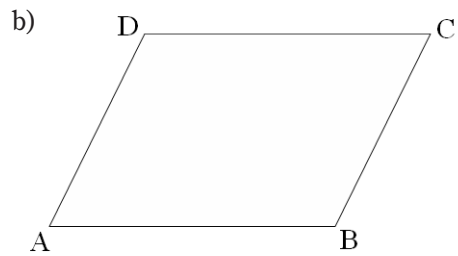
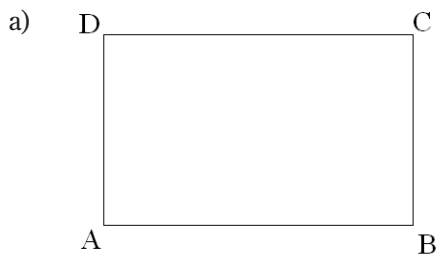


# Test i måloppnåelse – FASIT

## NYE MEGA 9A – KAPITTEL A

### OPPGAVE 1



Rombe. Diagonalene halverer hverandre og står vinkelrett på hverandre.

### OPPGAVE 2

a) 22 cm

b) 514 cm = 5,14 m

c) 2430 m = 2,43 km

### OPPGAVE 3

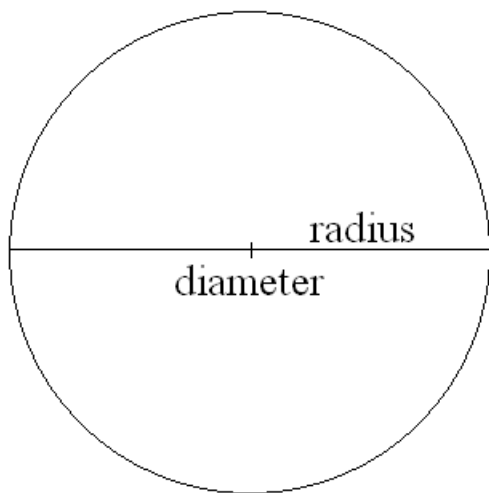
a) 8 cm<sup>2</sup>

b) 91,5 cm<sup>2</sup>

c) 30 cm<sup>2</sup>

### OPPGAVE 4

a)



b) 12,6 cm

c)  $A = 113,1 \text{ cm}^2$ ,  $o = 37,7 \text{ cm}$

### OPPGAVE 5

a) 48 dm<sup>3</sup>  
2,5 l = 25 dl

b) 254,5 dm<sup>3</sup> = 254,5 l

c) 226,2 dm<sup>2</sup> = 22620 cm<sup>2</sup>

Merk: Her er det trykkfeil i oppgaven cm<sup>3</sup> skal være cm<sup>2</sup>.

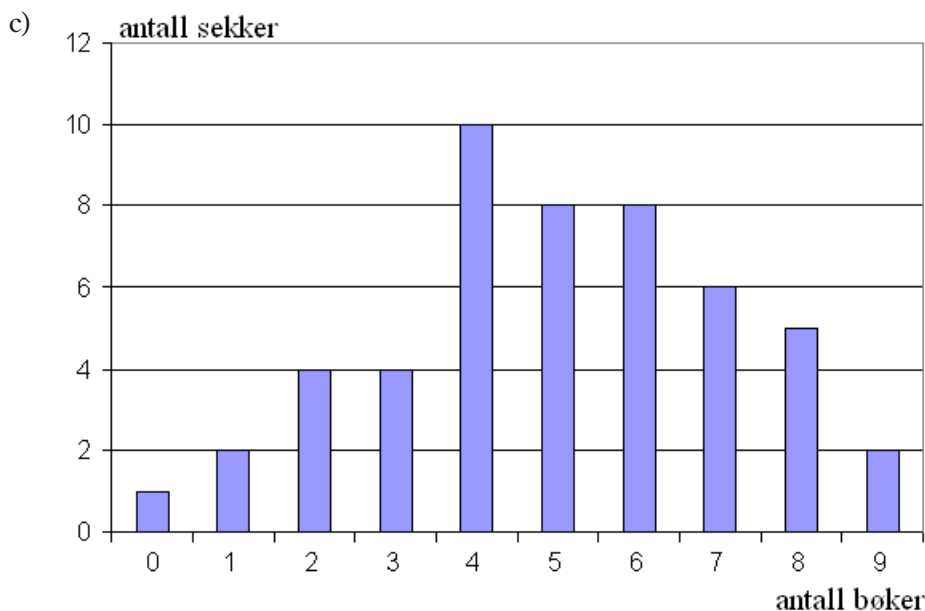
# KAPITTEL B

## OPPGAVE 1

a) Vi teller opp.

b)

Antall bøker	0	1	2	3	4	5	6	7	8	9
Antall sekker	1	2	4	4	10	8	8	6	5	2



## OPPGAVE 2

a) 4,7

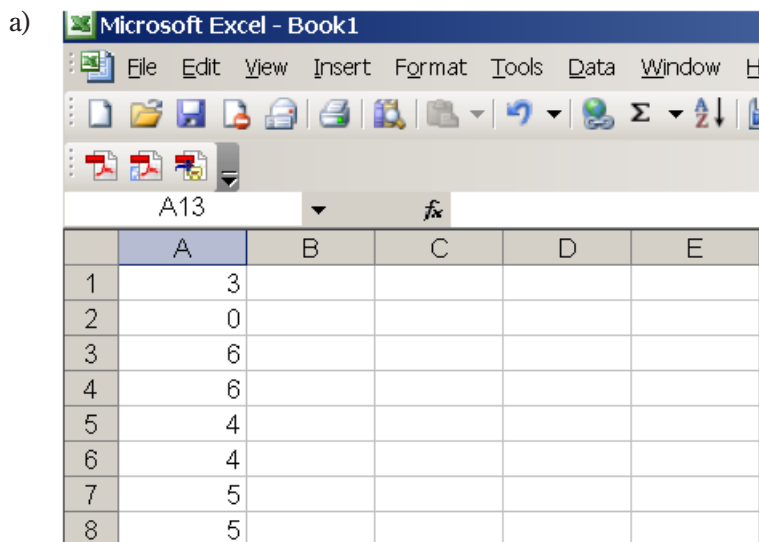
b) Middelerdi: 5

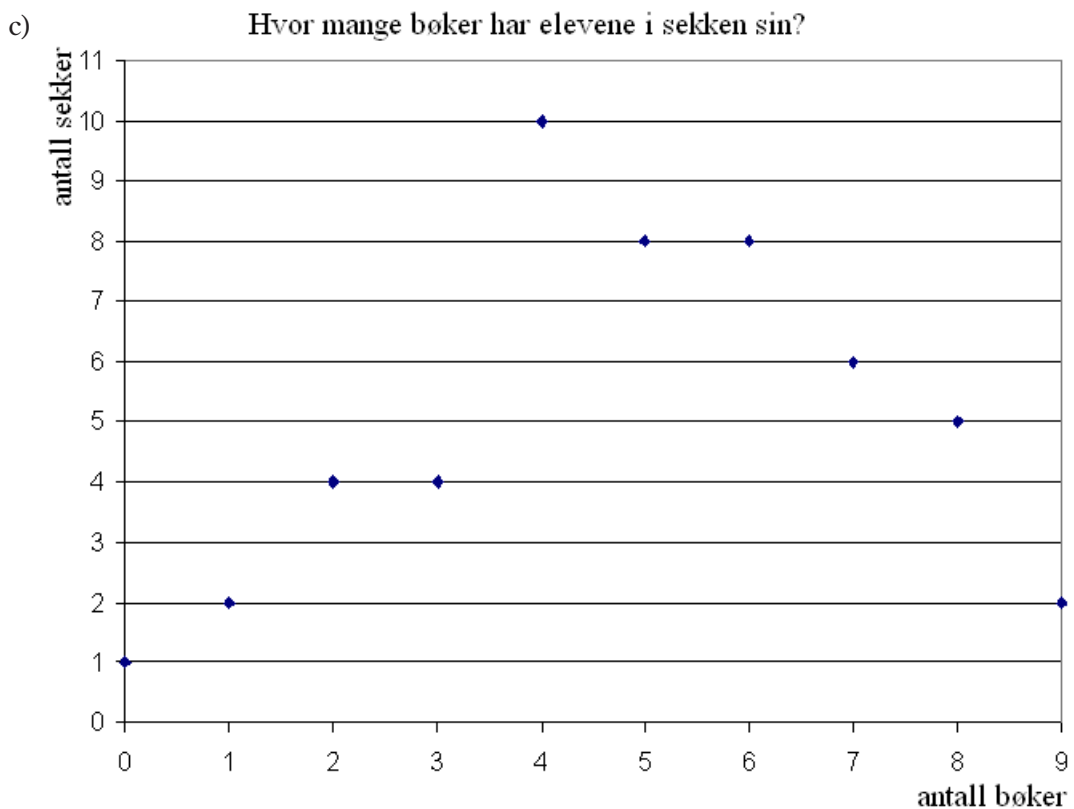
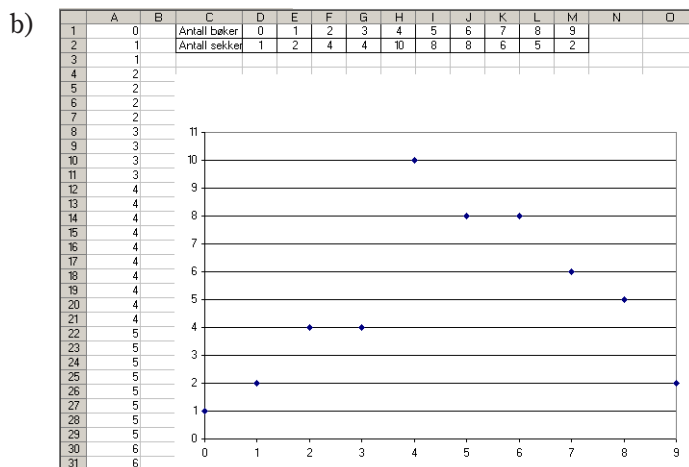
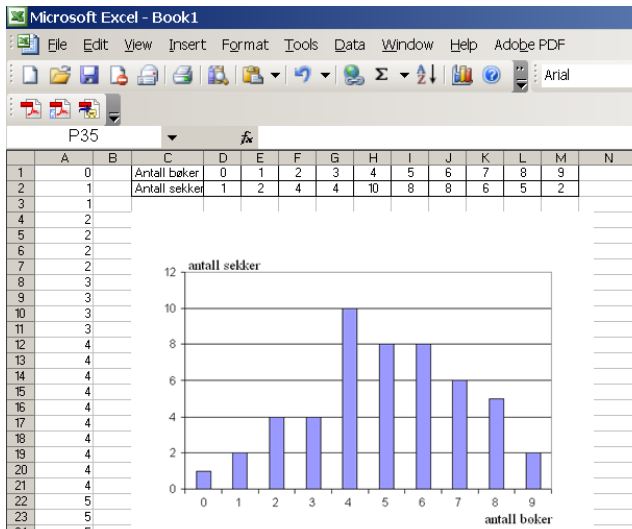
Typetall: 4

Median: 5

c) Middelerdi og median er begge lik 5 og typetallet er 4. Siden det er ingen eller liten forskjell på de tre sentralmålene spiller det ikke så stor rolle hvilket mål vi bruker.

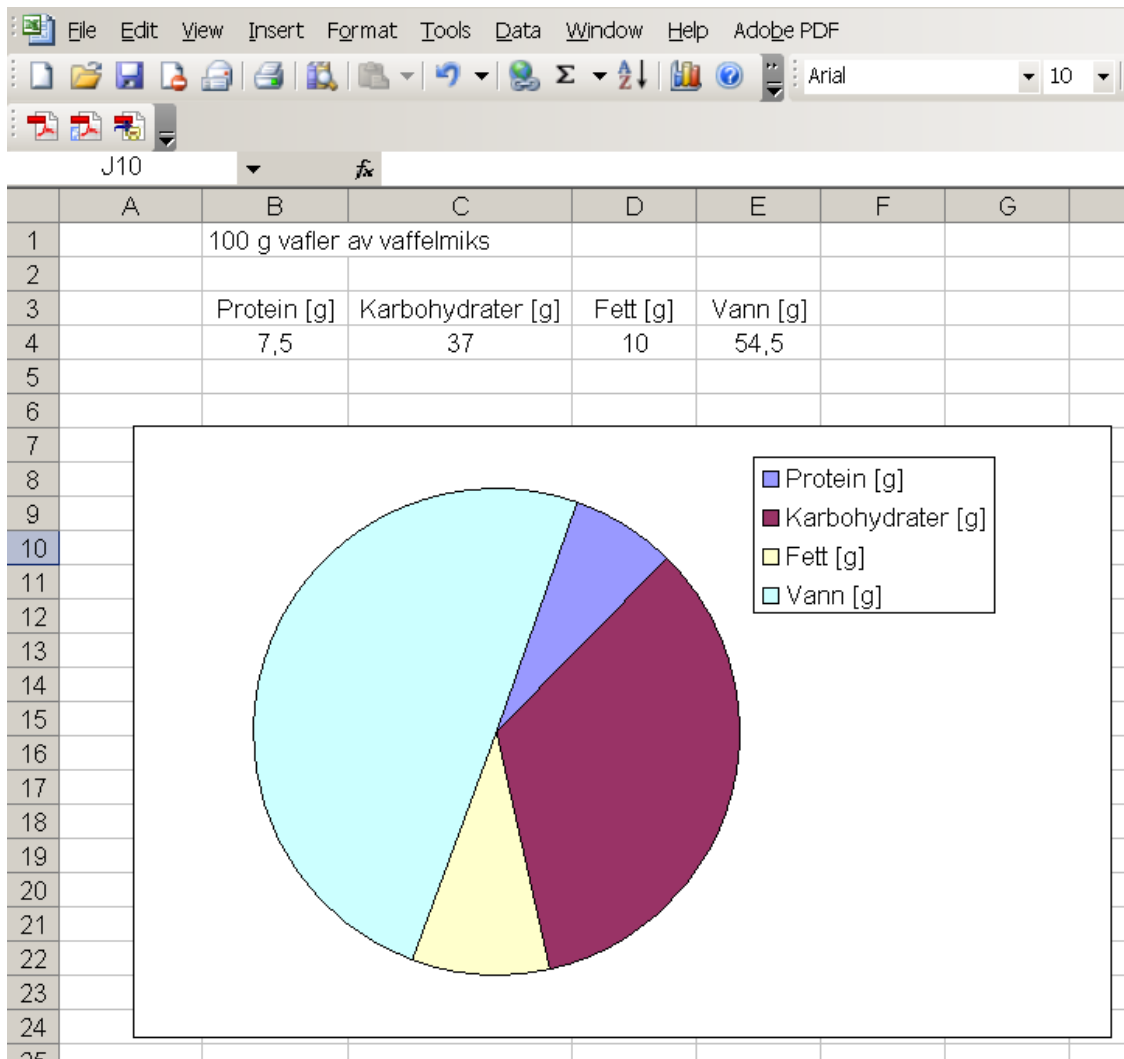
## OPPGAVE 3



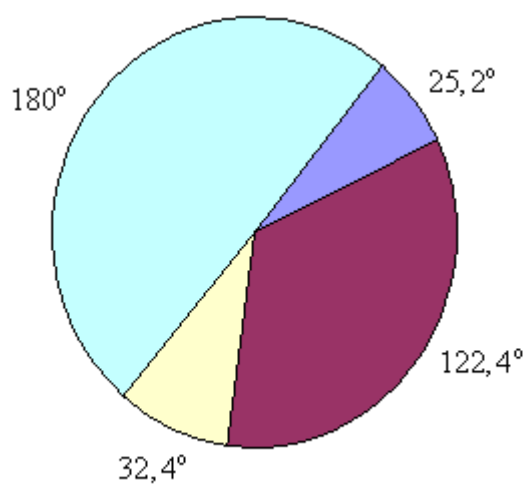


# OPPGAVE 4

a, b, c)



c)



# Test i måloppnåelse – FASIT

## NYE MEGA 9B – KAPITTEL C

<b>OPPGAVE 1</b>	a) 6	b) -6	c) 6
<b>OPPGAVE 2</b>	a) 22	b) 2	c) -10
<b>OPPGAVE 3</b>	a) $9a$	b) $4a + 2b$	c) $-2a - 7b + 6$
<b>OPPGAVE 4</b>	a) $6a + 3$	b) $2a - 3$	c) $-4a + 5b$
<b>OPPGAVE 5</b>	a) $6a + 12$	b) $a - 9$	c) $-6a^2 + 13a$
<b>OPPGAVE 6</b>	a) 1000	b) $10^4$	c) $6,3 \cdot 10^5$
<b>OPPGAVE 7</b>	a) 25	b) $4^5$	c) 43
<b>OPPGAVE 8</b>	a) $b^4$	b) $a^7$	c) $8a^8$
<b>OPPGAVE 9</b>	a) 4 og -4	b) 16,882 og -16,882	c) $x = 9,747$ og $x = -9,747$

## KAPITTEL D

### OPPGAVE 1

a) 2, 3, 5 og 7

b) 7 er et primtall

c) Tallet 43 er et primtall fordi 43 er delelig bare med 1 og seg selv.

### OPPGAVE 2

a)  $\frac{3}{4}$  ← teller  
← nevner

b)  $\frac{12}{15} = \frac{4}{5}$

c)  $\frac{18}{5} = 3\frac{3}{5}$

### OPPGAVE 3

a)  $\frac{4}{5}$

b)  $\frac{5}{12}$

c)  $\frac{17}{6} = 2\frac{5}{6}$

### OPPGAVE 4

a)  $\frac{8}{15}$

b)  $\frac{14}{15}$

c)  $\frac{7}{10}$

### OPPGAVE 5

a) saft : vann = 1 : 4

b) Anne: 2000 kr  
Truls: 4000 kr  
Mina: 6000 kr

c) Roy: 2 deler  
Kim: 3 deler  
Anders: 5 deler

Forhold: 2 : 3 : 5

## KAPITTEL E

### OPPGAVE 1

a)  $x = 5$

b)  $x = 4$

c)  $x = 15$

### OPPGAVE 2

a)  $x = 5$

b)  $x = 2$

c)  $x = 10$

### OPPGAVE 3

a)  $x = 2$

b)  $x = 3$

c)  $x = 2$

### OPPGAVE 4

a) 2

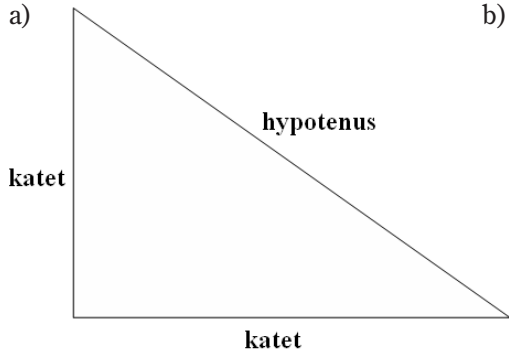
b) 12

c) Lina: 6 år  
Emma: 9 år  
Helene: 12 år

# KAPITTEL F

## OPPGAVE 1

a)

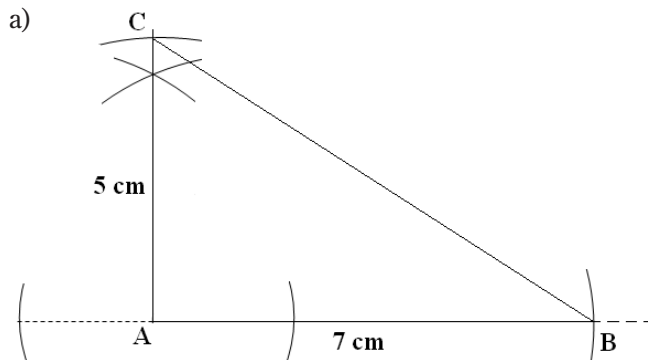


b) 7,2 cm

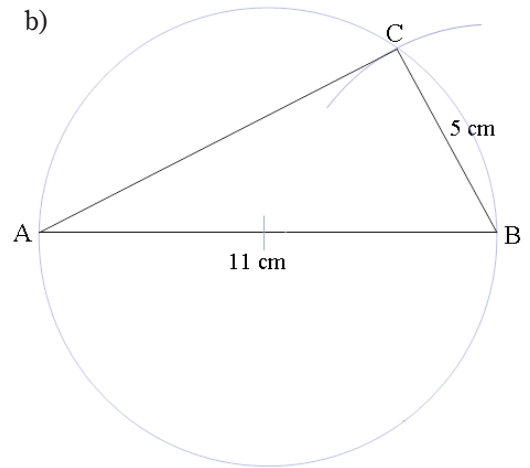
c) 8,5 cm

## OPPGAVE 2

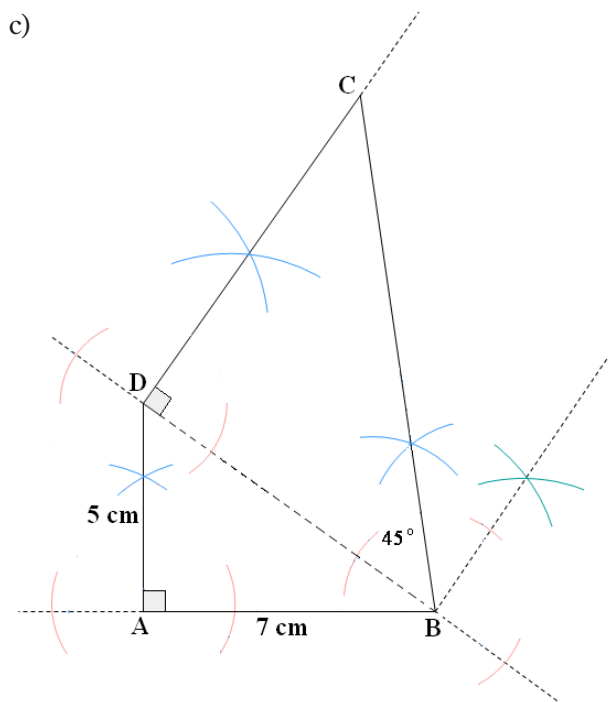
a)



b)



c)



# KAPITTEL G

## OPPGAVE 1

a)  $6^{\circ}\text{C}$

b)  $1^{\circ}\text{C}$

c) Grafen viser temperaturen på en onsdag fra kl. 07.00 til kl. 21.00.

## OPPGAVE 2

a) 27 kr

b)

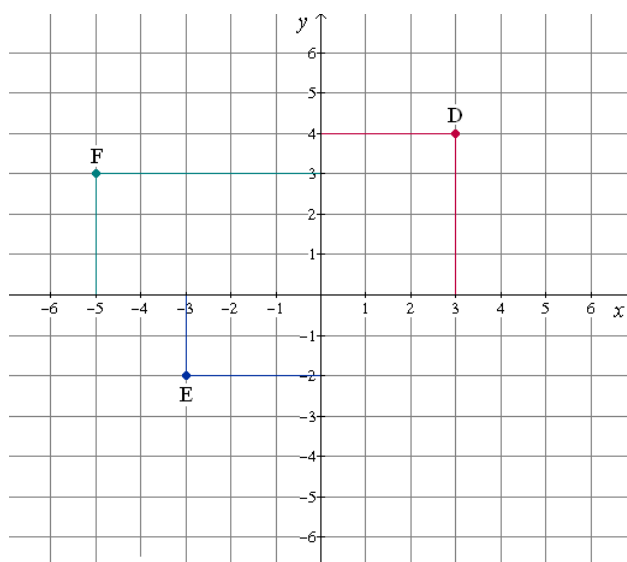
Antall bøker	Antall sekker
1	32 kr
2	35 kr
3	38 kr
4	41 kr

c)  $G = 3 \cdot x + 20$

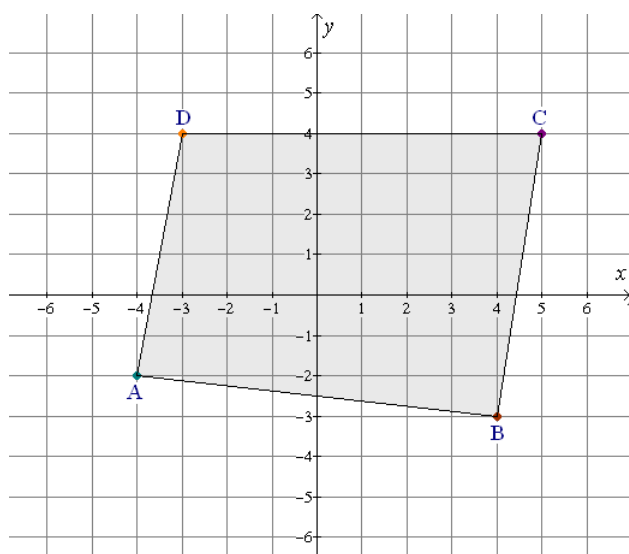
## OPPGAVE 3

a) A(2,3) og B(4,1)

b)

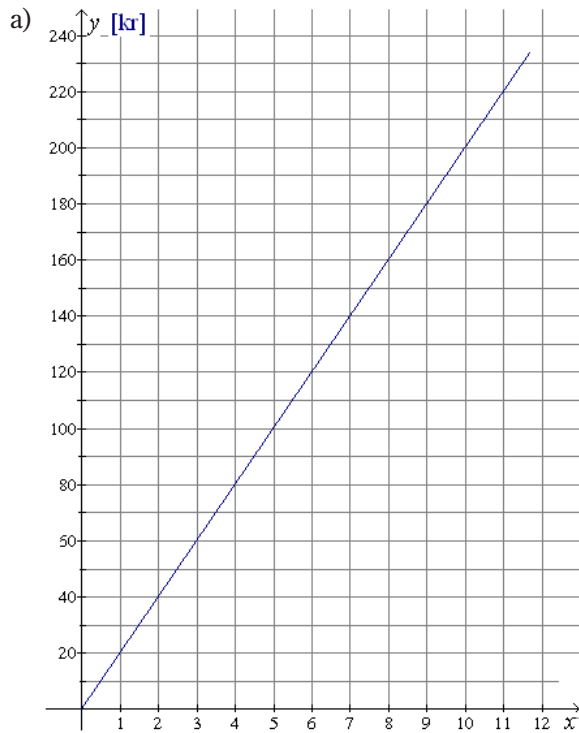


c)



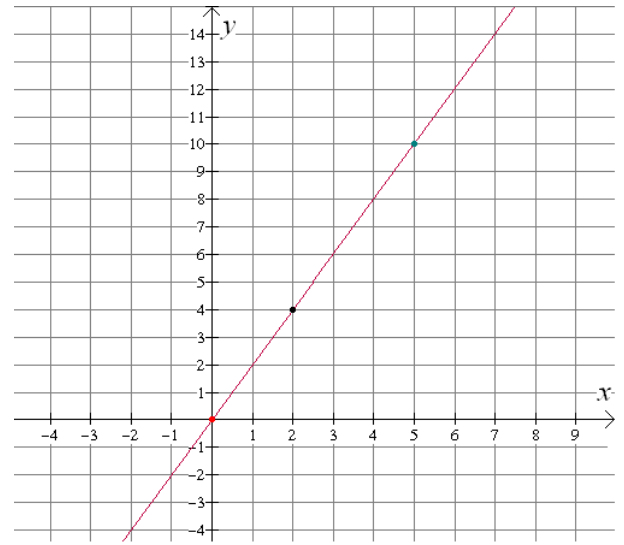
Figuren som framkommer, er et trapes der AD er parallell med BC.

OPPGAVE 4

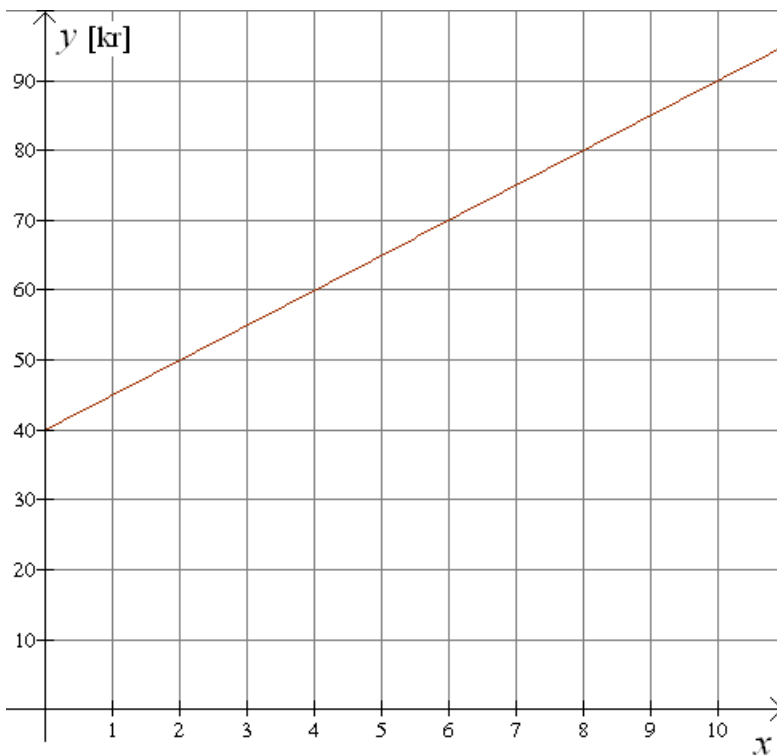


b)

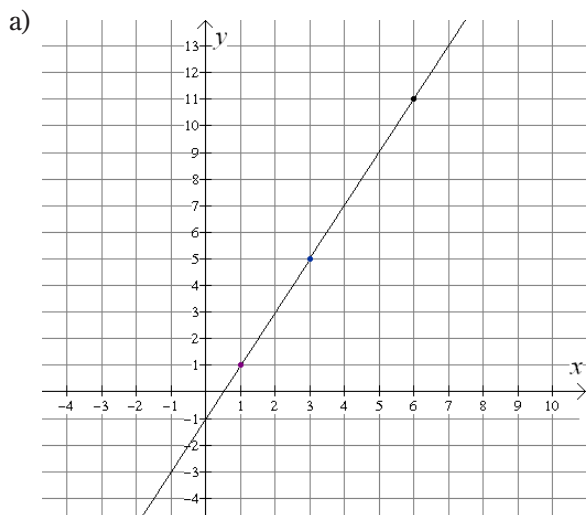
x	0	2	5
y	0	4	10



c)  $y = 5x + 40$

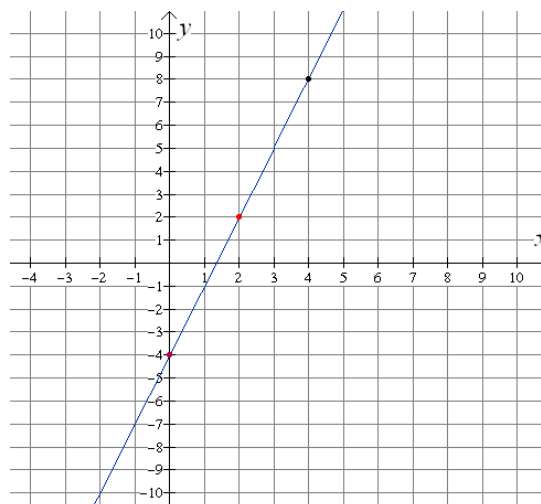


## OPPGAVE 5

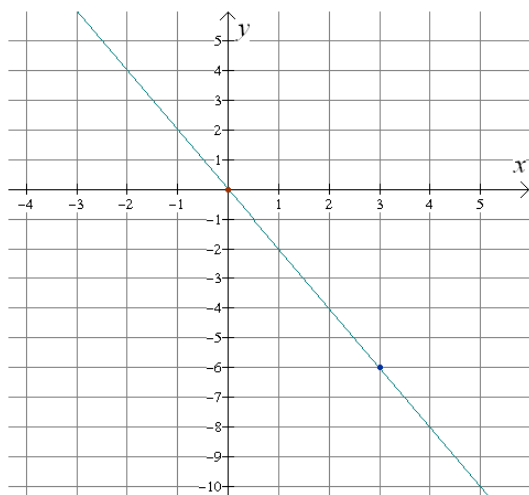


b)

x	0	2	4
y	-4	2	8



c)  $y = -2x$



## KAPITTEL H

### OPPGAVE 1

a)  $V = 96 \text{ cm}^3$

b)  $V = \pi r^2 h = 3,14 \cdot (2,0 \text{ cm})^2 \cdot 3,0 \text{ cm} = 37,7 \text{ cm}^3$

c)  $V = \frac{4}{3} \pi r^3 = \frac{4}{3} \cdot 3,14 \cdot (6,0 \text{ cm})^3 = 904,3 \text{ cm}^3$

Hvis du bruker  $\pi$  på lommeregneren, får du at  $V = 904,8 \text{ cm}^3$

OPPGAVE 2

a)

		B5 $f_x = 3,14*(A2)^2*B2$		
	A	B	C	D
1	Radius	Høyde		
2	3,5	8		
3				
4				
5	Volum	307,72		
6				
7				

Volum = 307,72cm<sup>3</sup>

b)

		B4 $f_x = A2*B2*C2$		
	A	B	C	D
1	Lengde	Bredde	Høyde	
2	5,3	2,5	4,6	
3				
4	Volum	60,95		
5				

Volum = 60,95 cm<sup>3</sup>

c)

		B4 $f_x = (1/3)*3,14*(A2)^2*B2$		
	A	B	C	D
1	Radius	Høyde		
2	3,2	15,4		
3				
4	Volum	165,06		
5				

Volum = 165,06 cm<sup>3</sup>