

Greiðslurokning 9. fl. aug. 2013, útroknað

1a		
Aliringur	470000 kr	
Nót	170000 kr	
Akker/fortoyningar	150000 kr	
4 ljós à 10000	40000 kr	
70000 smolt à 8 kr	560000 kr	
Tilsamans	1390000 kr	

1b
Tey mugu hava $\frac{1000000}{70000} \approx$ **15 ringar**

1c
Tað kostar $1390000 * 15 =$ **20850000 kr**

1d
Framleiðlukostnaðurin er $1000000 * 5 * 0,60 =$ **3000000 kr**

2a
Ummálið er $21 * \pi \approx$ **66 m**

2b
Rúmd $\pi * 10,5^2 * 23 =$ **7966,3 m³**

2c
Vídd á "nótavegginum" $23 * 66 =$ **1518 m²**

3a

50 tons = 50000 kg
Sølvvirði í kr = $50000 * 35 =$ **1750000 kr**

580,6 kr = $\frac{100 \text{ USD}}{580,6}$
1750000 kr = $\frac{100 * 1750000}{580,6} \approx$ **301412,33 USD**

3b

Fyri 50 tons ella 50000 kg fæst:

$$100 \text{ EUR} = 745,48 \text{ kr}$$

$$235000 \text{ EUR} = \frac{745,48 * 235000}{100} = 1751878 \text{ kr}$$

$$\text{Tey fáa fyri kg} = \frac{1751878}{50000} \approx 35,04 \text{ kr}$$

4a

Sí mynd

4b

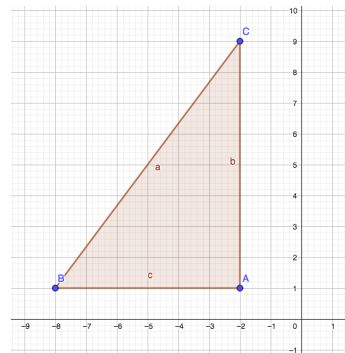
$$a^2 = 6^2 + 8^2$$

$$a^2 = 36 + 64$$

$$a^2 = 100$$

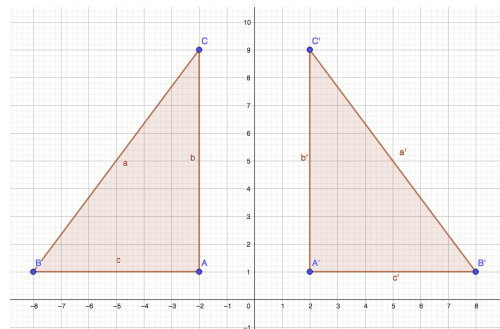
$$a = \sqrt{100}$$

$$a = 10 \text{ eindir}$$



4c

Sí mynd



4d

$$\frac{17}{\sin 70} = \frac{b}{\sin 55}$$

$$\sin 70 * b = 17 * \sin 55$$

$$b = \frac{17 * \sin 55}{\sin 70}$$

$$b \approx 14,8 \text{ cm}$$

5a

$$4x^4 + 3x^3 + 2x^2$$

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

5b

$$-4(3a + 5b)^2$$

$$-4(3a + 5b)(3a + 5b)$$

$$-4(9a^2 + 15ab + 15ab + 25b^2)$$

$$-36a^2 - 60ab - 60ab - 100b^2$$

$$\mathbf{-36a^2 - 120ab - 100b^2}$$

5c

$$\frac{24}{x+3} = 3$$

$$\frac{24(x+3)}{x+3} = 3(x+3)$$

$$24 = 3x + 9$$

$$24 - 9 = 3x$$

$$15 = 3x$$

$$x = \frac{15}{3}$$

$$\mathbf{x = 5}$$

5d

$$2x + 3 > -5$$

$$2x > -5 - 3$$

$$2x > -8$$

$$x > \frac{-8}{2}$$

$$\mathbf{x > -4}$$

6a

Eygbering x	Uppteljing	Tíðfðri t(x)	Samantalt tíðfðri T(x)	Tídd f(x)	Samantald tídd F(x)	$x_m * t$
$0 \leq x \leq 4$	IIII	4	4	23,5	23,5	$2 * 4 = 8$
$5 \leq x \leq 9$	IIII	4	8	23,5	47	$7 * 4 = 8$
$10 \leq x \leq 14$	I	1	9	5,9	52,9	$12 * 1 = 12$
$15 \leq x \leq 19$	IIII	4	13	23,5	76,4	$17 * 4 = 68$
$20 \leq x \leq 24$	III	3	16	17,6	94	$22 * 3 = 66$
$25 \leq x \leq 29$	I	1	17	5,9	99,9	$27 * 1 = 27$
		17				

6b

Mestið : $0 \leq x \leq 4$
 $5 \leq x \leq 9$
 $15 \leq x \leq 19$

6c

- 1. fjórðingsmark er 1
- Miðjan er 8
- 3. fjórðingsmark er 14,5

