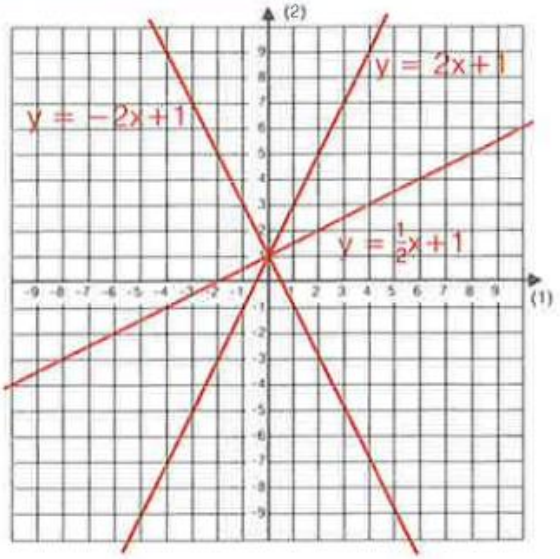
K-skipanin 5



Í K-skipanini omanfyri eru tríggjar rættar linjur teknaðar. *Forskriftirnar* líkjast:

l : $y = 2 \cdot x + 1$
m : $y = \frac{1}{2} \cdot x + 1$
n : $y = -2 \cdot x + 1$

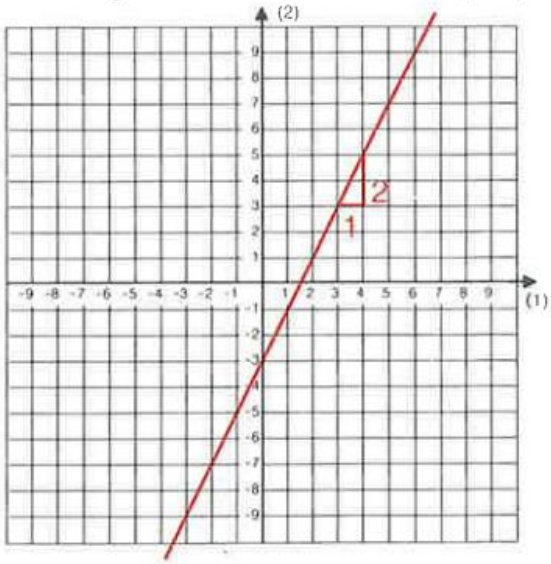
§ *Forskriftina* hjá einari rættari linju kunnu vit skriva soleiðis:

$$y = a \cdot x + b$$

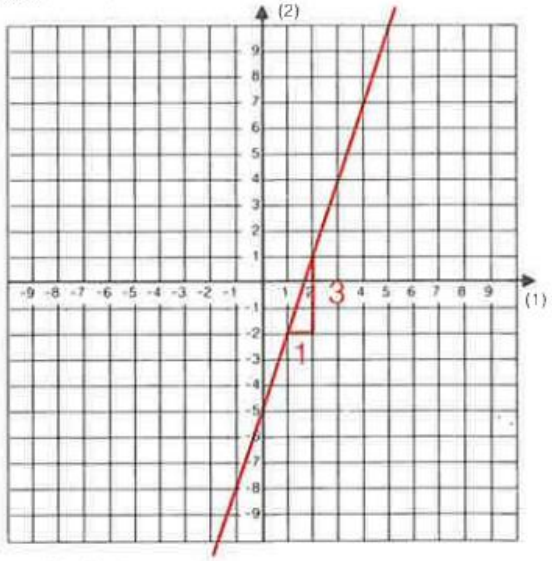
Talið (a), sum x verður faldað við, nevna vit *halltalið*

Talið b vísir, at linjan sker 2-ásin í punktinum (0,b)

Tá ið linjan er teknað í eina K-skipan, *siggja* vit, hvat halltalið er:



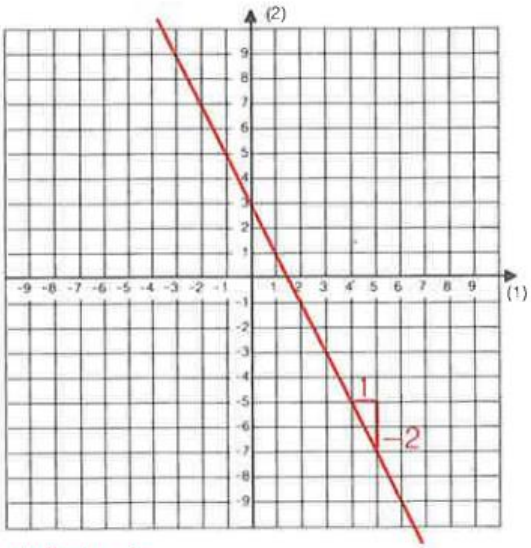
Halltal: 2



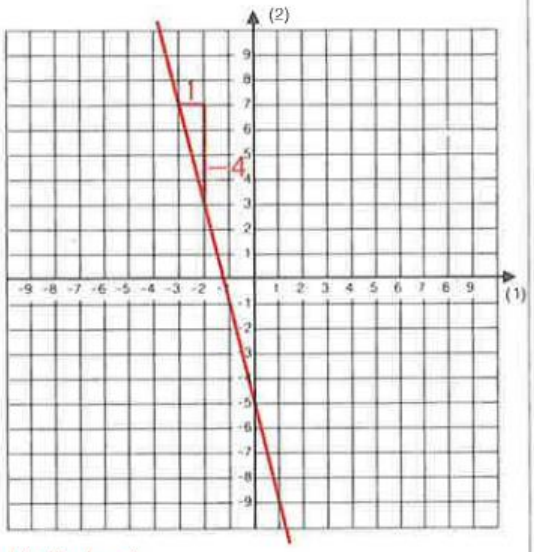
Halltal: 3

Legg til merkis:
Vit velja eitt tilvildarligt punkt og tekna *1 til høgru*. Haðani tekna vit upp til linjuna. Hetta vísir halltalið.

Um linjan gongur *niðureftir*, er halltalið *negativt*:



Halltal: −2



Halltal: −4

170 Tekna linjurnar, sum ganga ígjøgnum punktini. Hvat er halltalið?

171 Hvat er halltalið, um linjan gongur ígjøgnum:

a (−2,6) og (2, −6)
b (−3,5) og (6, −4)
c (−1,6) og (−5, −6)
d (−5,5) og (1, −7)

172 Tekna linjurnar, sum ganga ígjøgnum punktini. Hvat er halltalið?

a (2,7) og (−3, −3)
b (2,5) og (−10, −1)
c (−2,8) og (1, −4)
d (−2,7) og (7, −2)

173 (Framhald av 171 og 172)
Í hvørjum punkti skera linjurnar 2-ásin?

174 Tekna hesar tríggjar linjurnar í somu K-skipan:

l: y = 2x + 3 *m:* y = x + 3 *n:* y = −x + 3

Hvar skera linjurnar 2-ásin?

175 Tekna hesar tríggjar linjurnar í somu K-skipan:

l: y = 3x − 5 *m:* y = −2x − 5 *n:* y = x − 5

Hvar skera linjurnar 2-ásin?

241 Tekna linjuna y = 2x − 1. Linjan skal ganga ígjøgnum (−3,−7).

Gongur linjan ígjøgnum (4,6)?

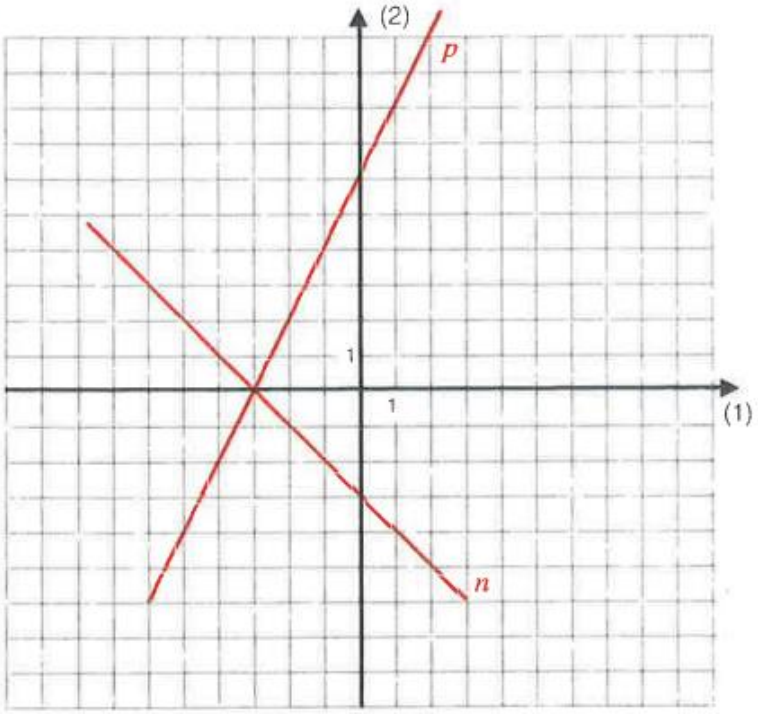
242 Tekna linjuna y = 4x − 6. Gongur hon ígjøgnum

a (−1,−8) **b** (1,−2) **c** (3,6)

243 *l*: y = −x + 4 *m*: y = x − 2

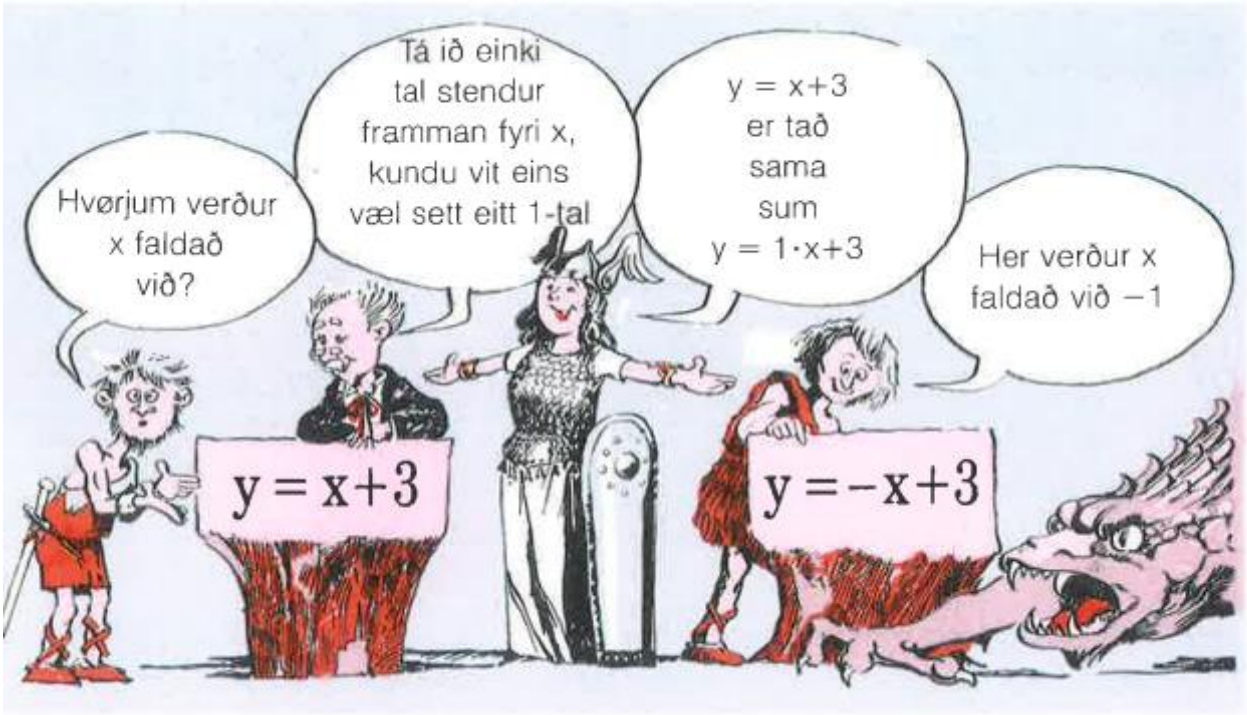
Tekna *l* og *m* og finn skurðpunktið.

244



Hvør forskrift niðanfyri gevur linjuna *p* ella *n*?

a y = −x + 6
b y = 2x − 3
c y = 2x + 6
d y = 3x − 2
e y = −x − 3
f y = 6x + 2



245 l: y = 2x+5 m: y = 3x+2

Finn skurðpunktið hjá linjunum.

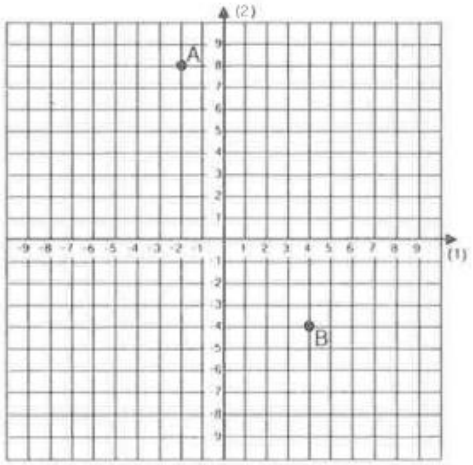
246 n: y = x+9 o: y = −x−5

Finn skurðpunktið hjá linjunum.

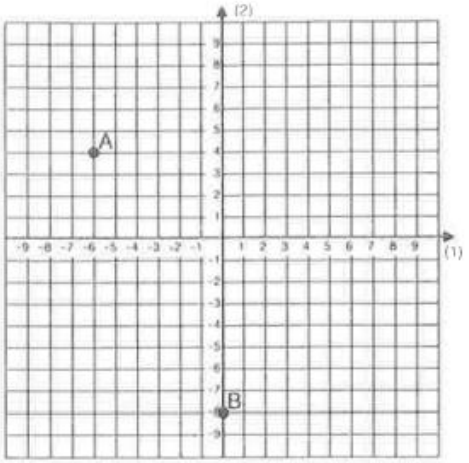
247 p: y = −2x+13 $ó$: y = x−11

Finn skurðpunktið hjá linjunum.

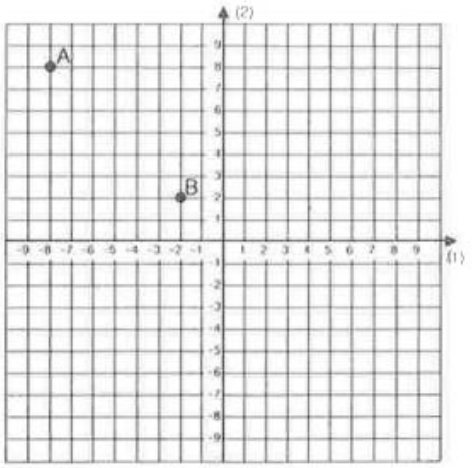
2 Tekna eina línu ígjøgnum A og B. Hvat er halltalið hjá línuni?



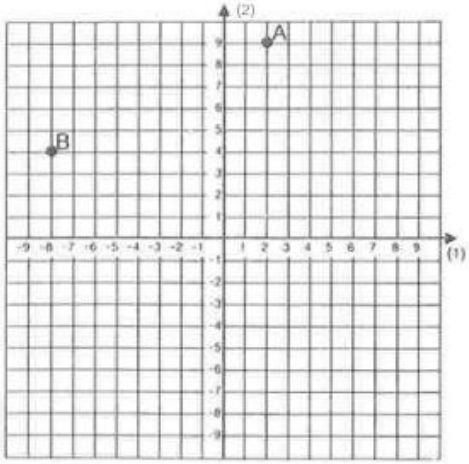
Halltal: _____



Halltal: _____

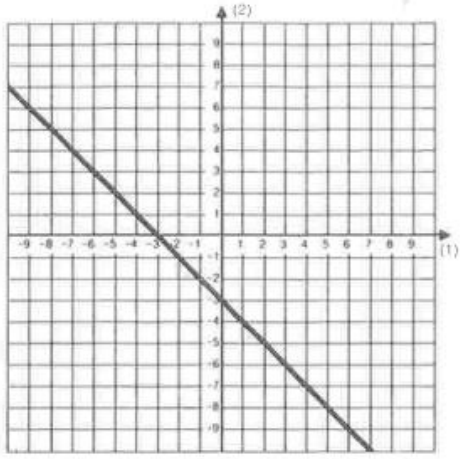


Halltal: _____

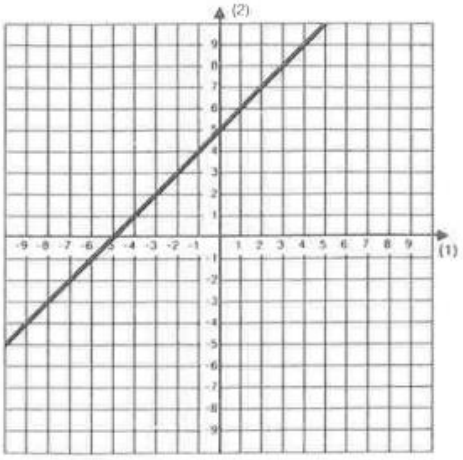


Halltal: _____

1 Hvørja forskrift hava linjurnar?



y = _____



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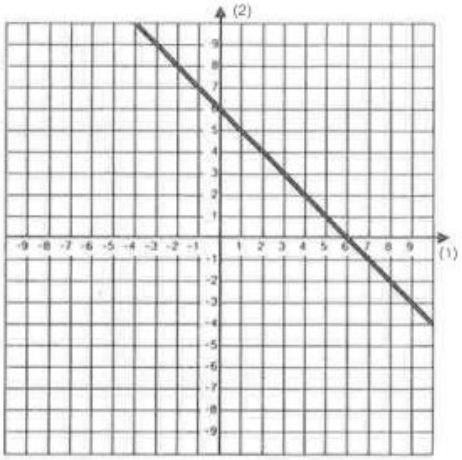
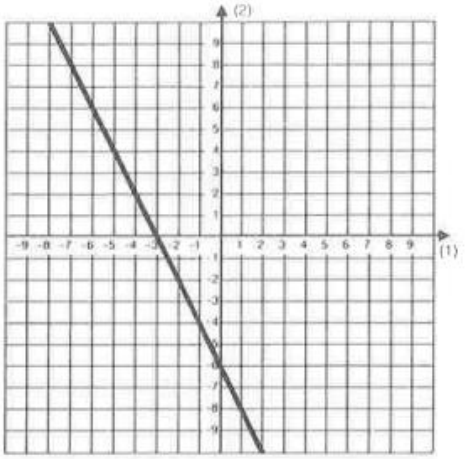
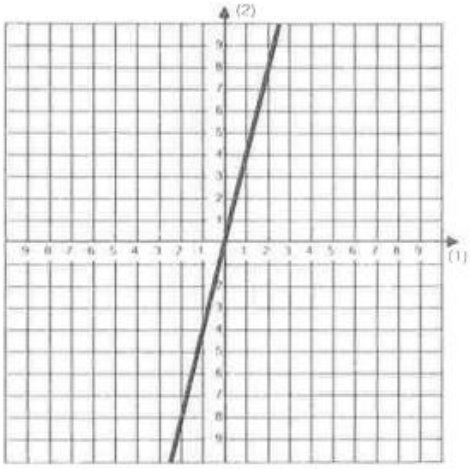


y = _____

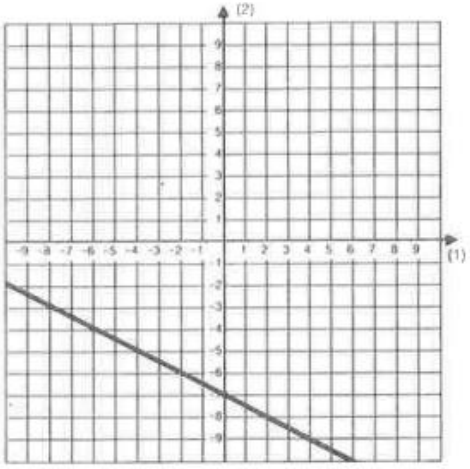


y = _____

2 Hvørja forskrift hava linjurnar?



y = _____



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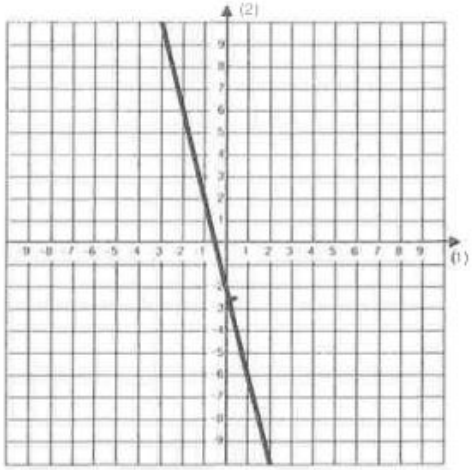

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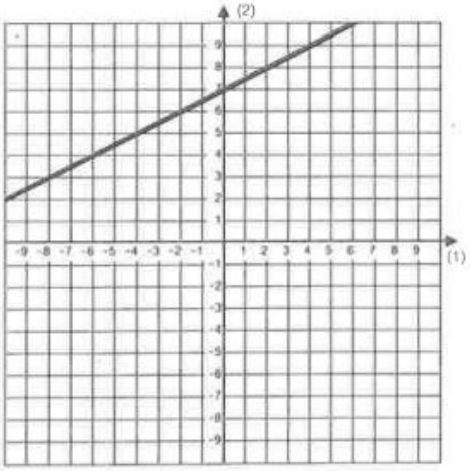
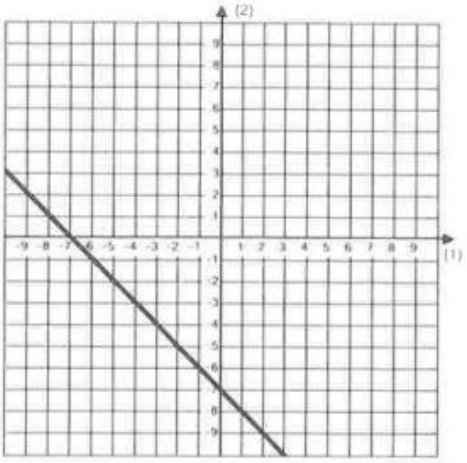


y = _____

2 Finn forskriftina hjá línunum:



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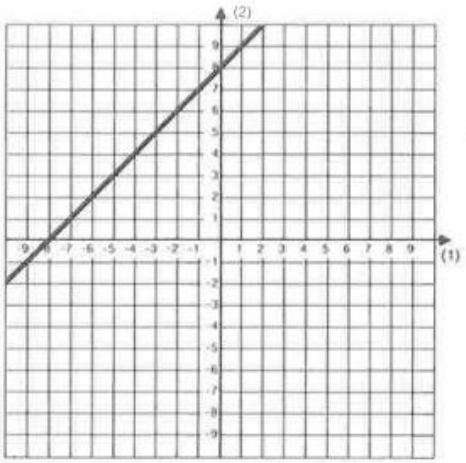

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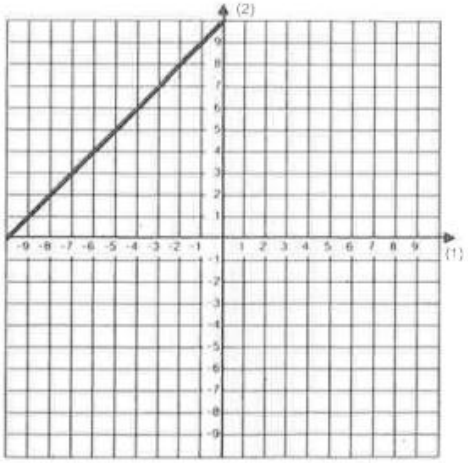

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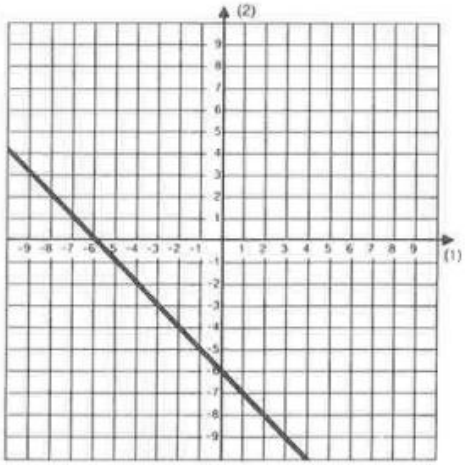

y = _____