

ESPEJOS Y LENTES

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MARIA MARTHA ROMERO

IBAGUE – TOLIMA

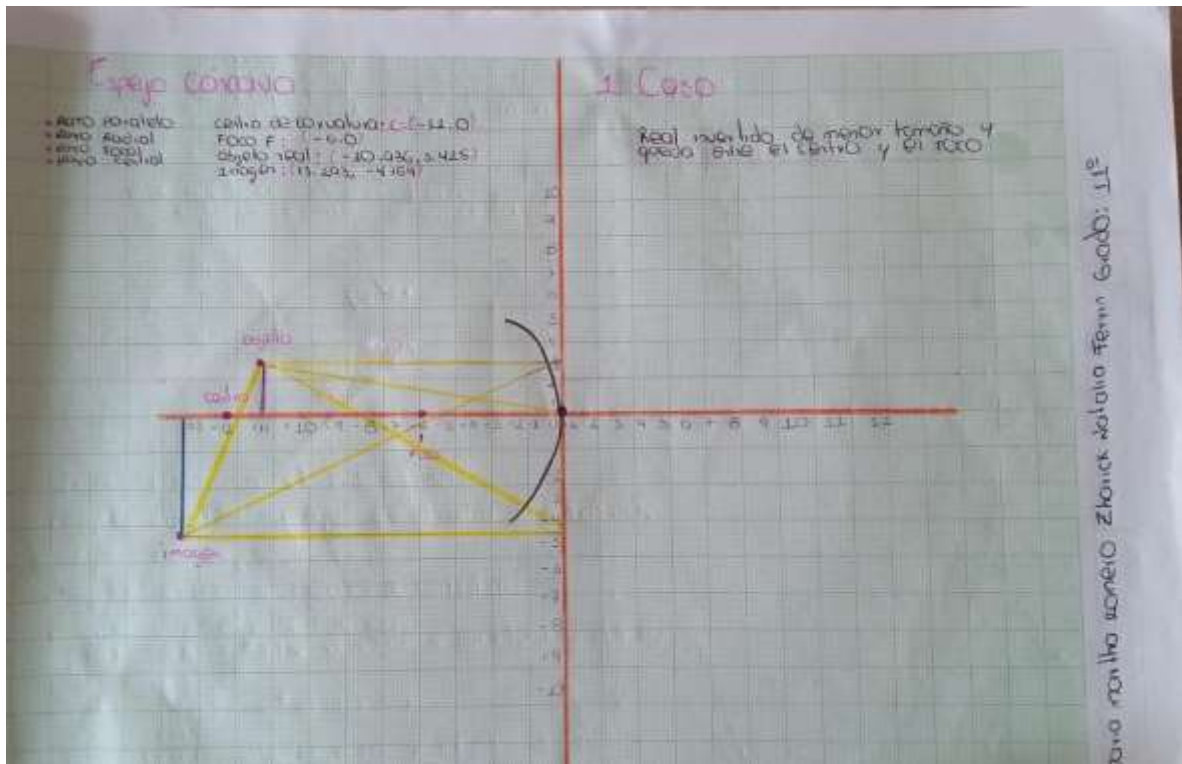
INSTITUCION EDUCATIVA MIGUEL DE CERVANTES

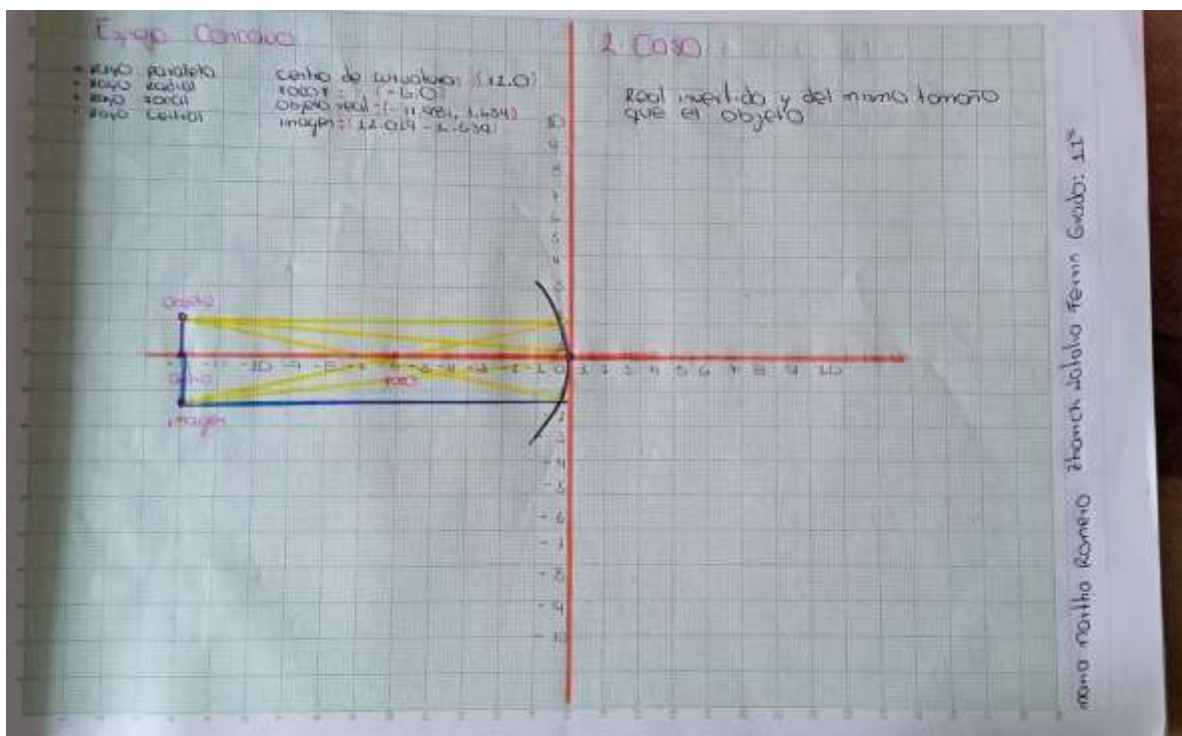
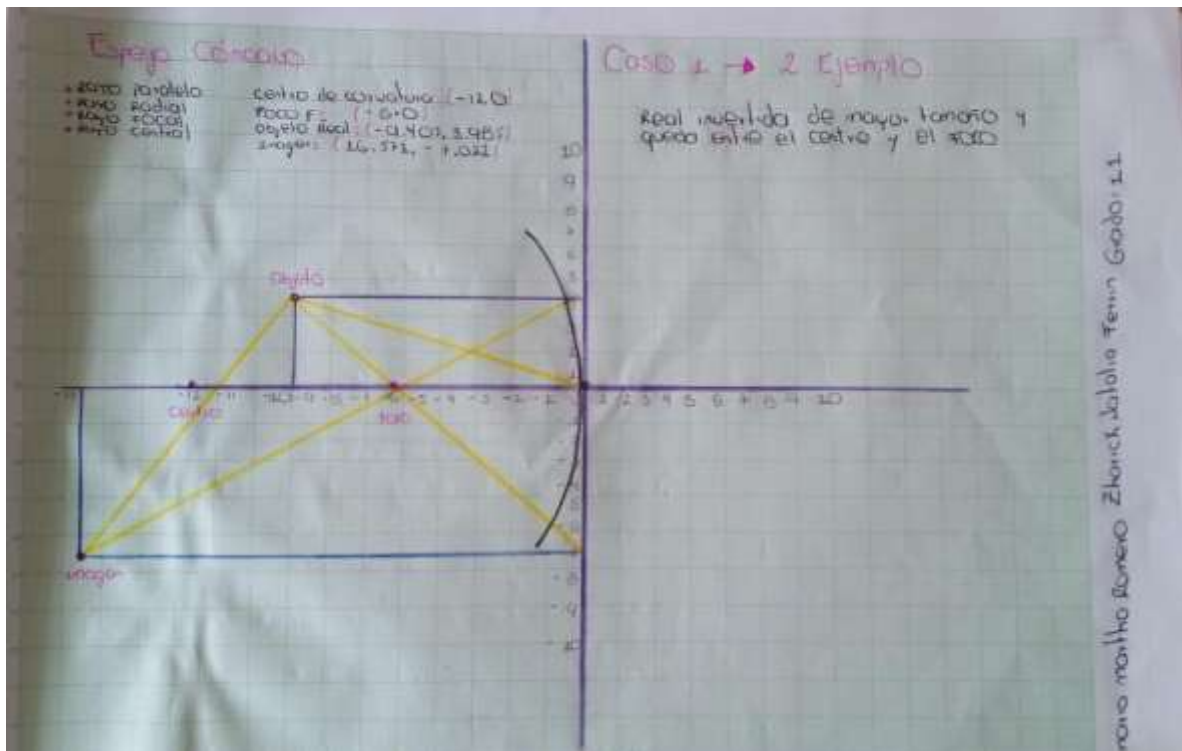
FISICCA

11°

2021

ESPEJOS CONCAVOS





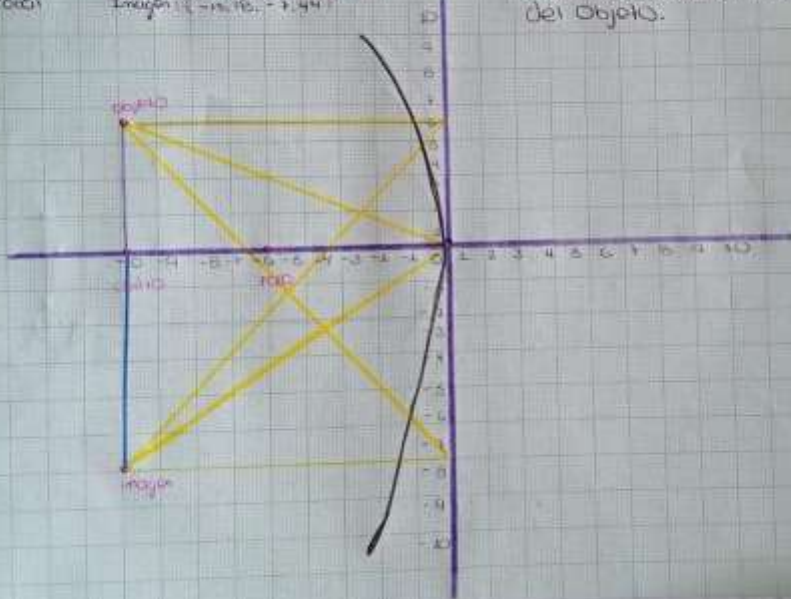
Espejo cóncavo

- Rayo paralelo
- Rayo radial
- Rayo focal
- Rayo central

Centro de curvatura: $(10, 0)$
 Foco: $(5, 0)$
 Objeto: $(-10, 10, 5.889)$
 Imagen: $(-10, 10, -7.44)$

2 Caso $\rightarrow$ 2 Ejemplo

Real, invertido del mismo tamaño del Objeto.



maio mallo romero thania abalado fernan Grado 11°

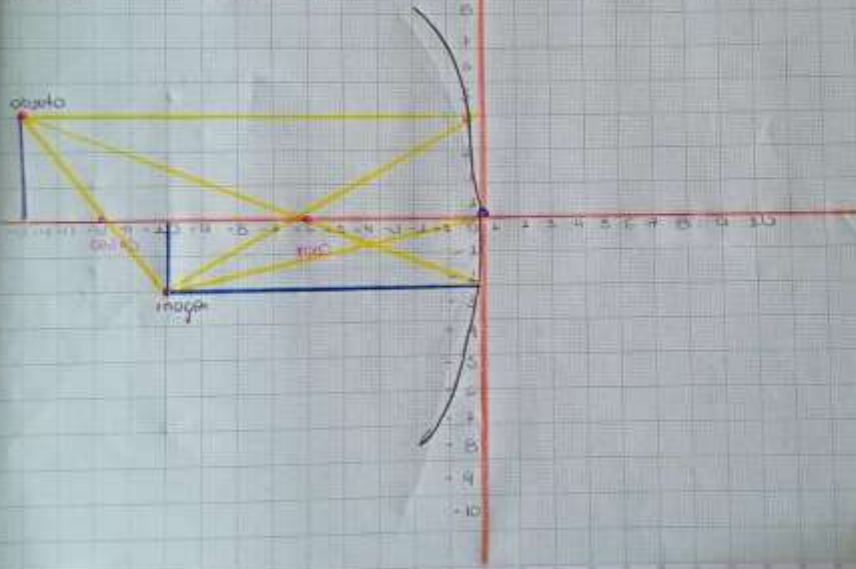
Espejo cóncavo

- Rayo paralelo
- Rayo radial
- Rayo focal
- Rayo central

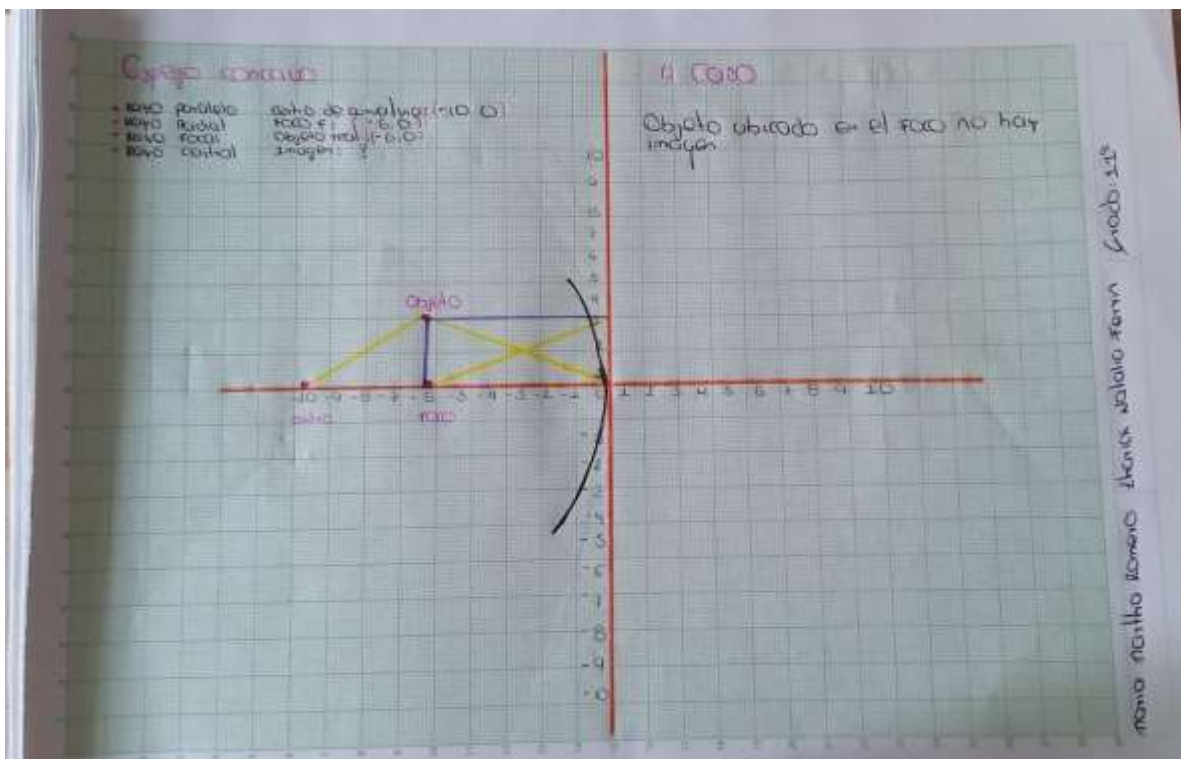
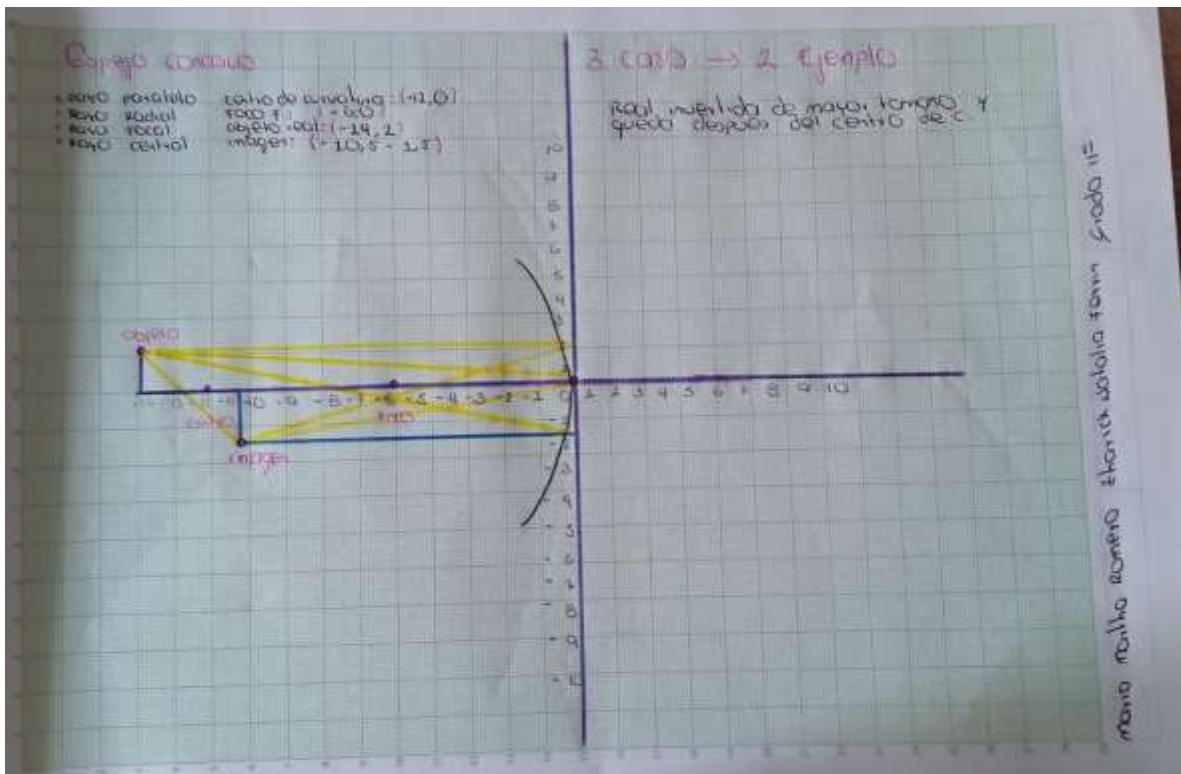
Centro de curvatura: $(10, 0)$
 Foco: $(5, 0)$
 Objeto: $(-10, 10, 1.5)$
 Imagen: $(-10, 2)$

3 Caso

Real, invertido de mayor tamaño, y después del centro de C.



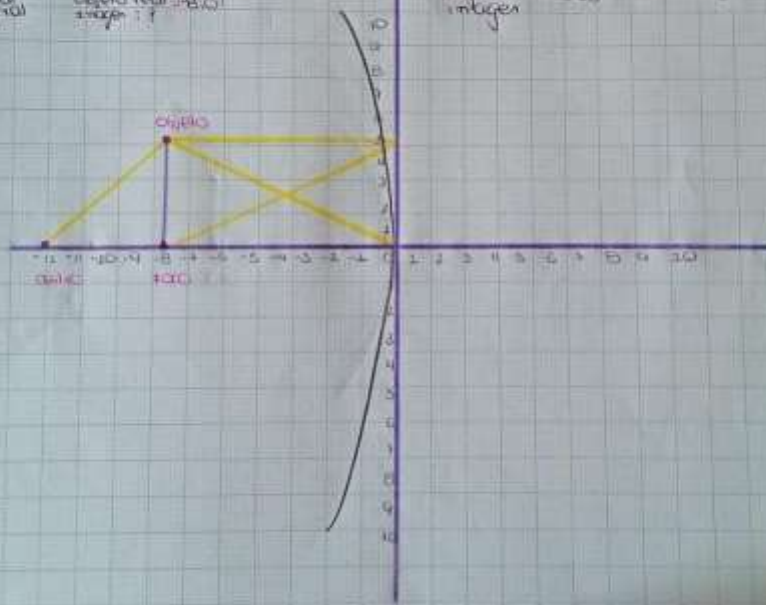
maio mallo romero thania abalado fernan Grado 11°



Espesio concavo

- Rayo paralelo
- Rayo focal
- Rayo central

Centro de curvatura: $(-12, 0)$
 Foco: $F: (-6, 0)$
 Objeto real: $(-8, 0)$
 Imagen: $I: (-4, 0)$



4 caso $\rightarrow$ 2 Ejemplo

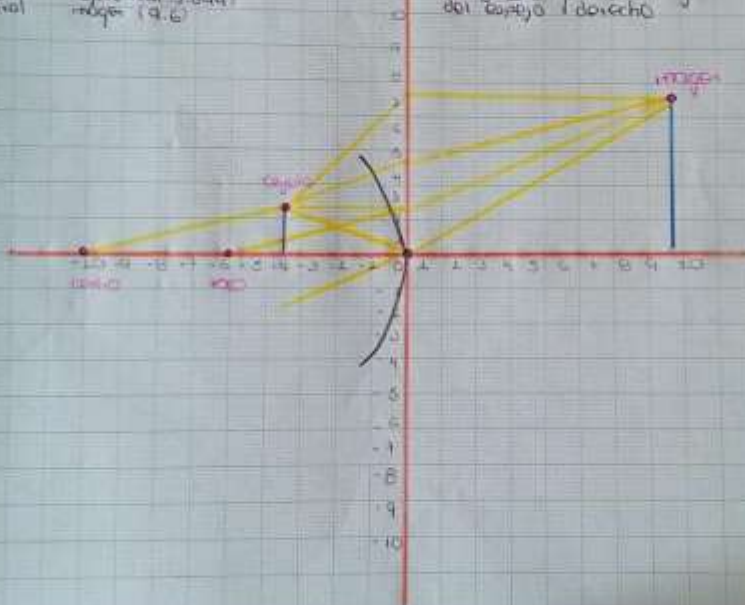
Objeto ubicado en el foco sin imagen

mano derecha, cono de vision, objeto real, imagen real, $f = 12$

Espesio concavo

- Rayo paralelo
- Rayo focal
- Rayo central

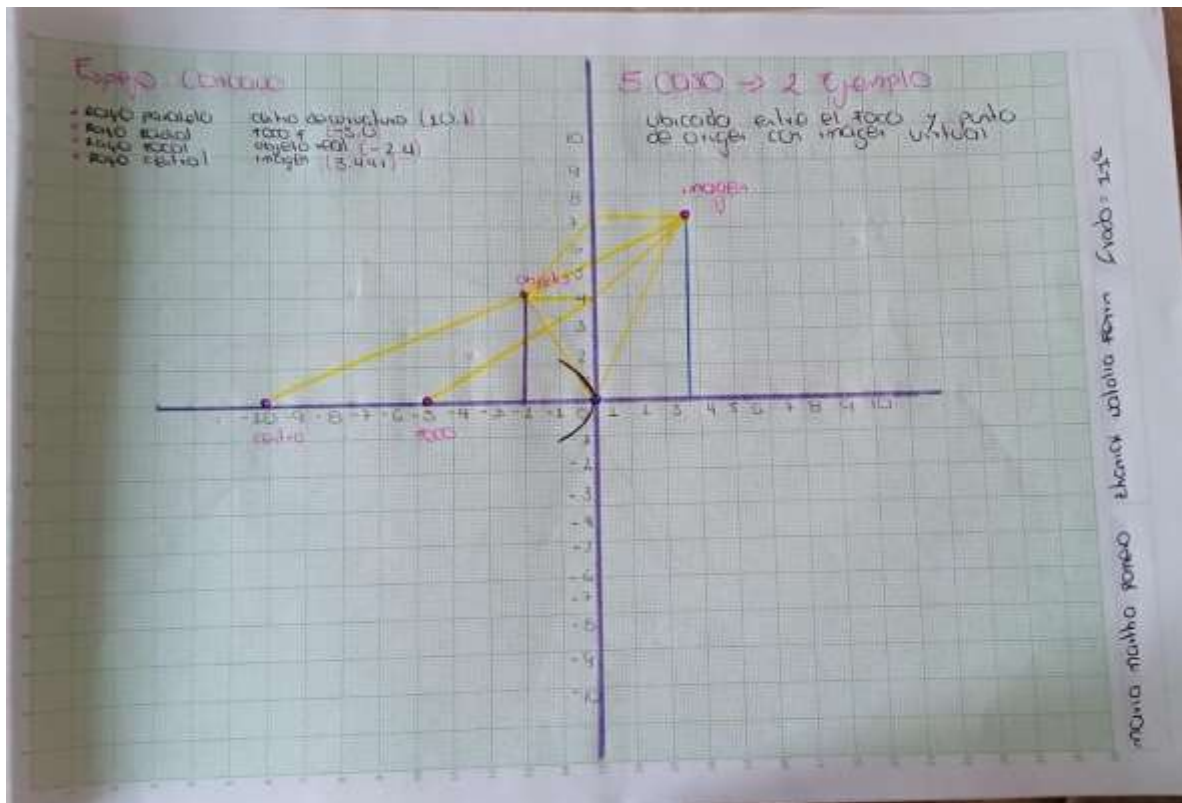
Centro de curvatura: $(-10, 0)$
 Foco: $F: (-5, 0)$
 Objeto real: $(-3, 0.4)$
 Imagen: $I: (9, 6)$



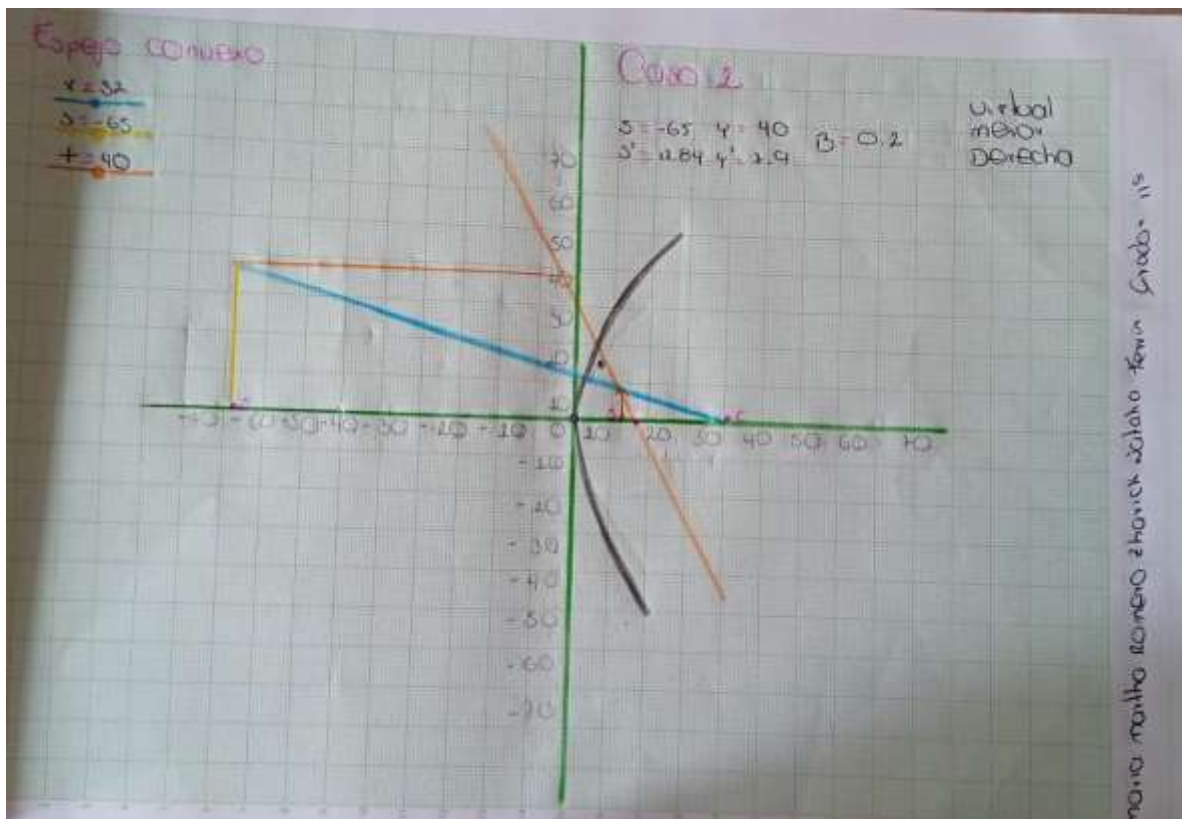
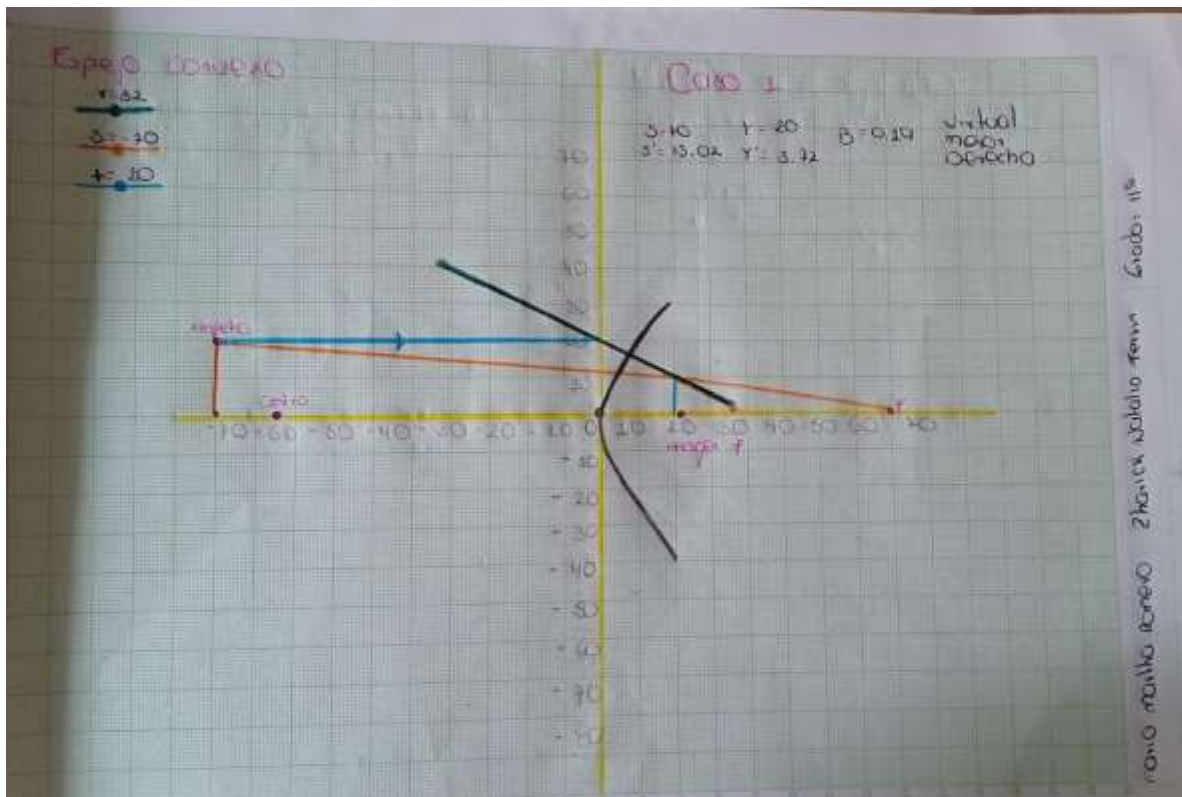
5 caso

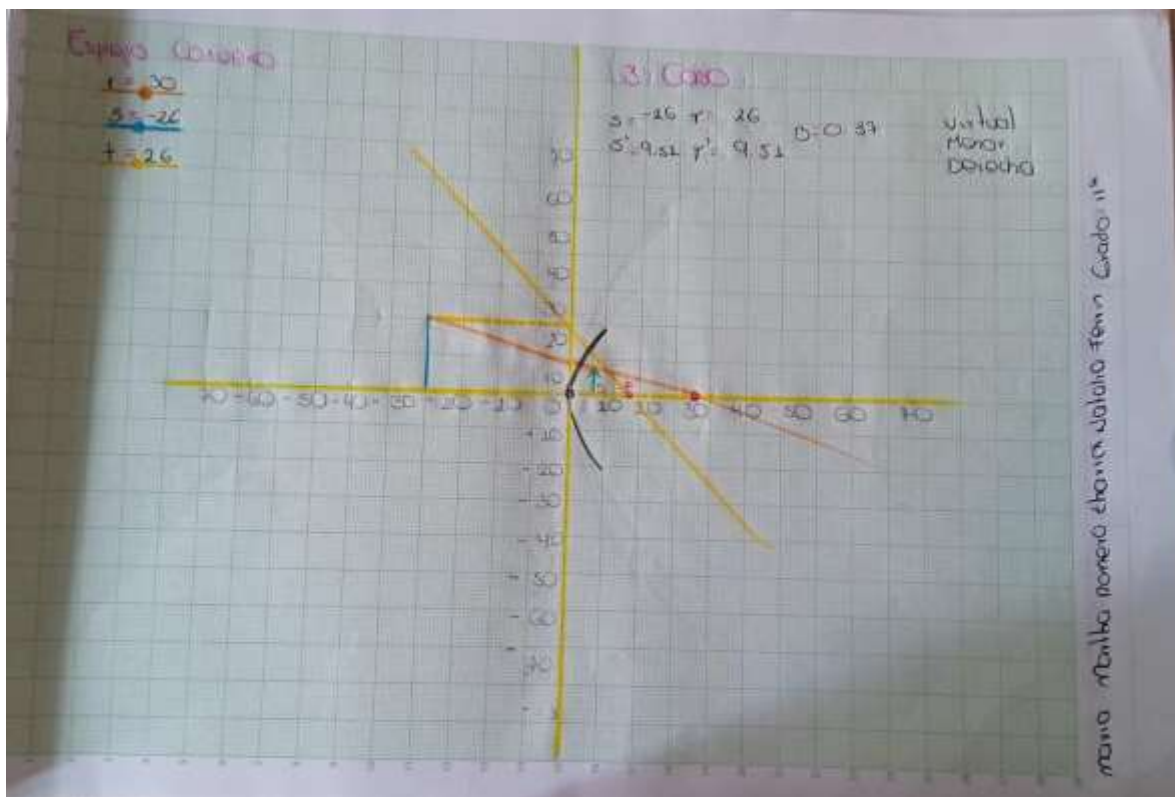
Objeto ubicado entre el foco y el centro de curvatura con imagen invertida, detrás del espejo y derecha

mano derecha, cono de vision, objeto real, imagen real, $f = 12$

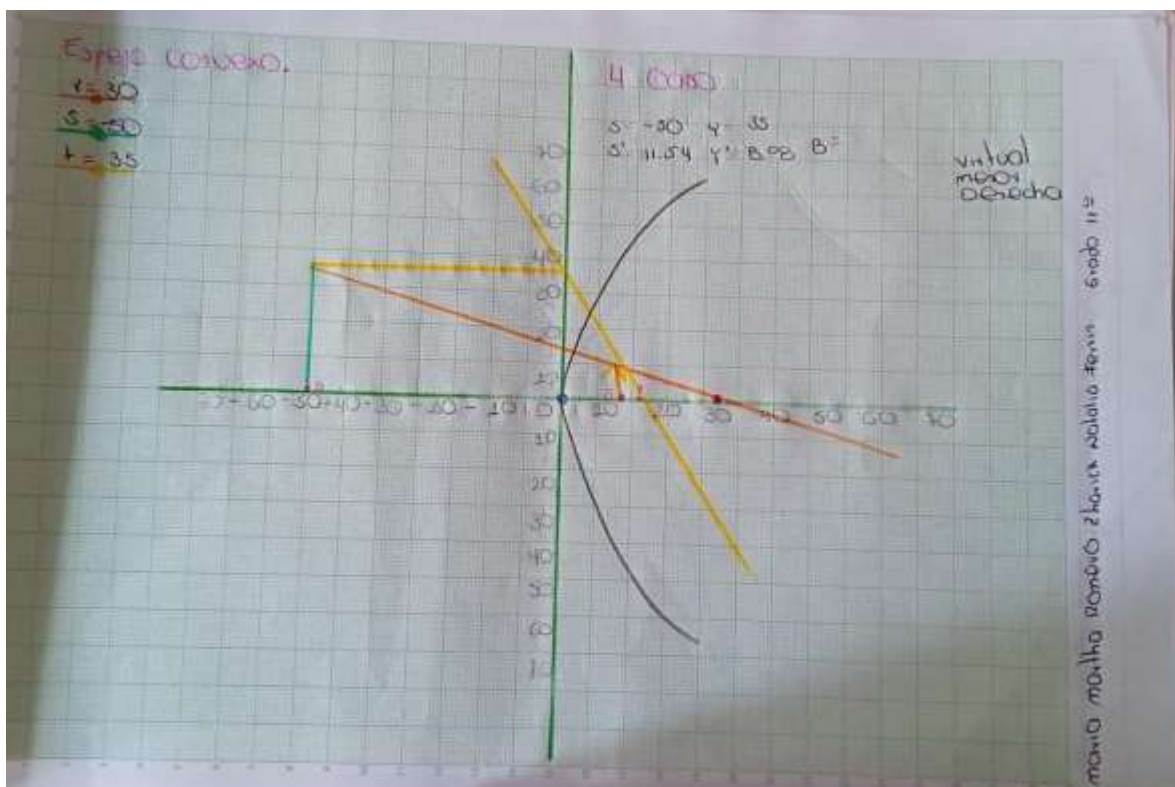


ESPEJOS CONVEXOS

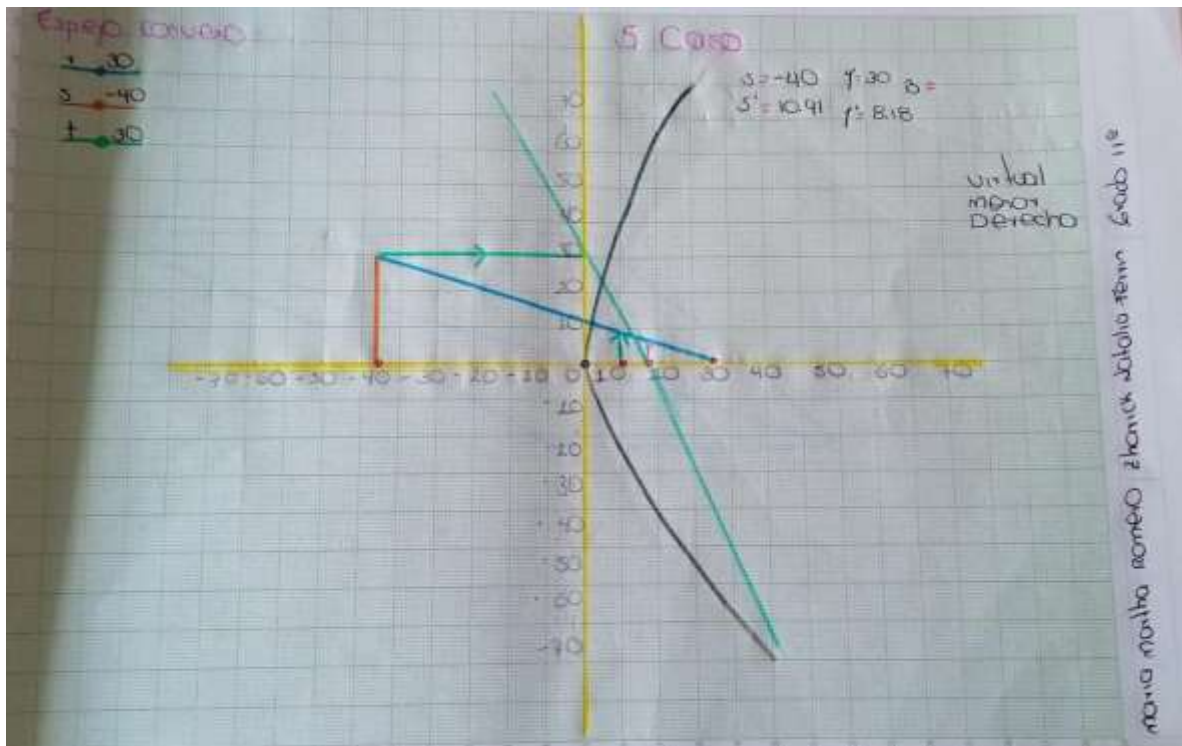




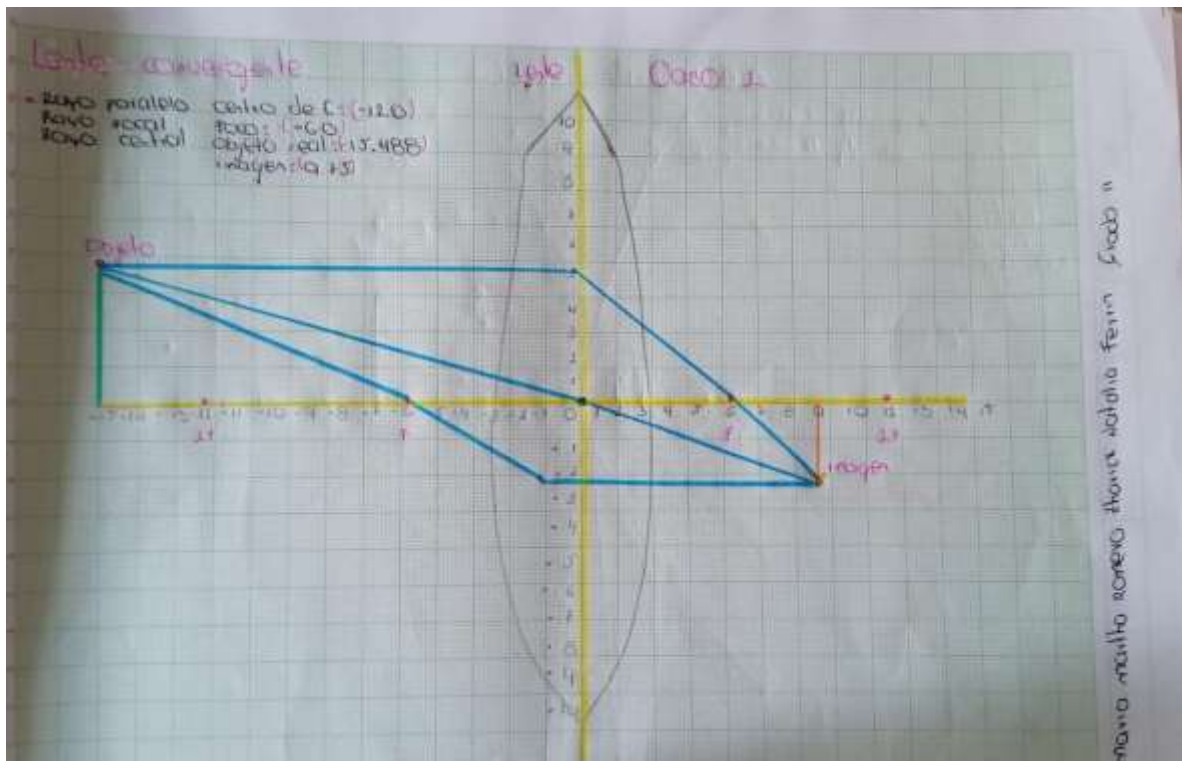
maior maior menor direita menor esquerda 11º



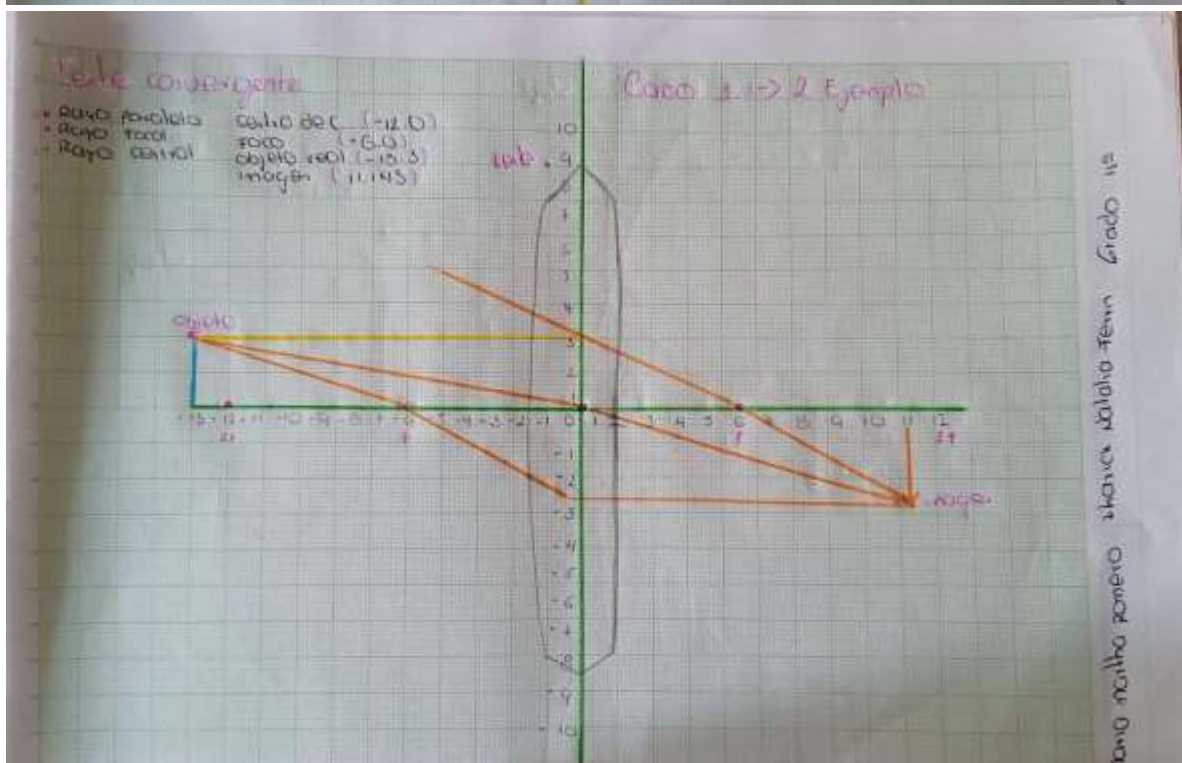
maior maior menor direita menor esquerda 11º



LENTES CONVERGENTES



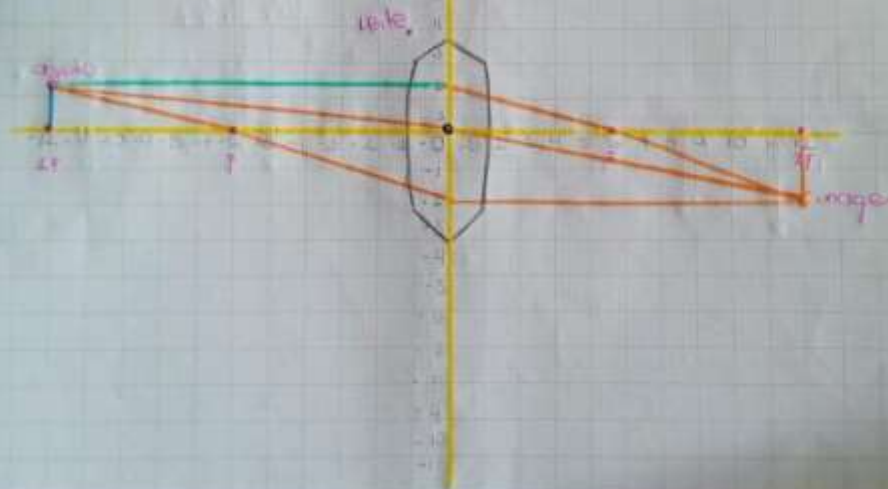
mano muito bom, thank you very much



mano muito bom, thank you very much

- Raza: *pasillo* centro del (-12.0)
- Raza: *rojo* rojo (-12.0)
- Raza: *café* café (-12.02)
- Raza: *negro* negro (-12.2)

Caso 2

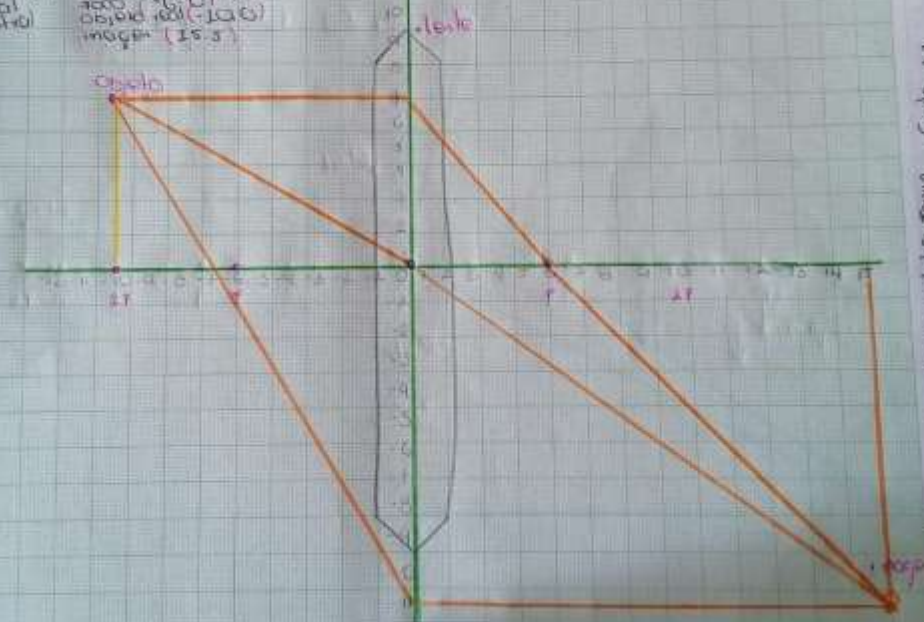


name: Naithe Renukshanka Jothila Famin Grade 11

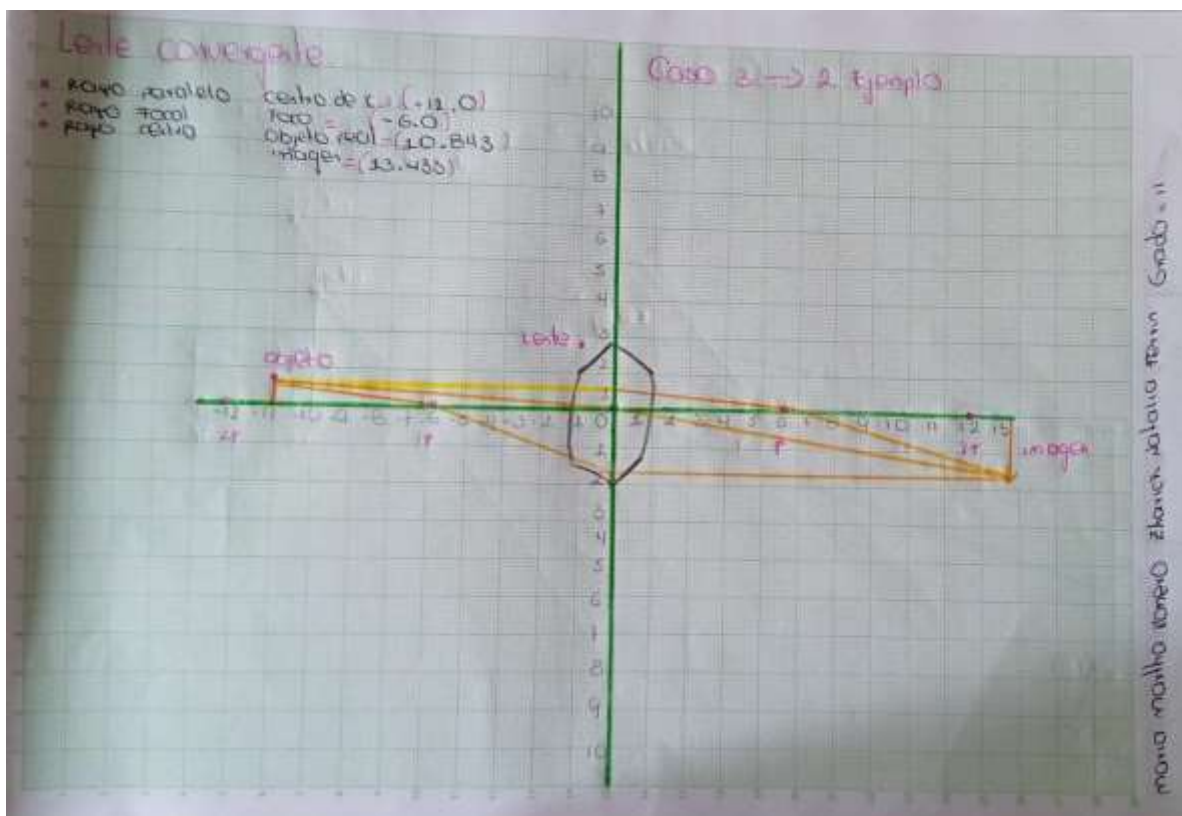
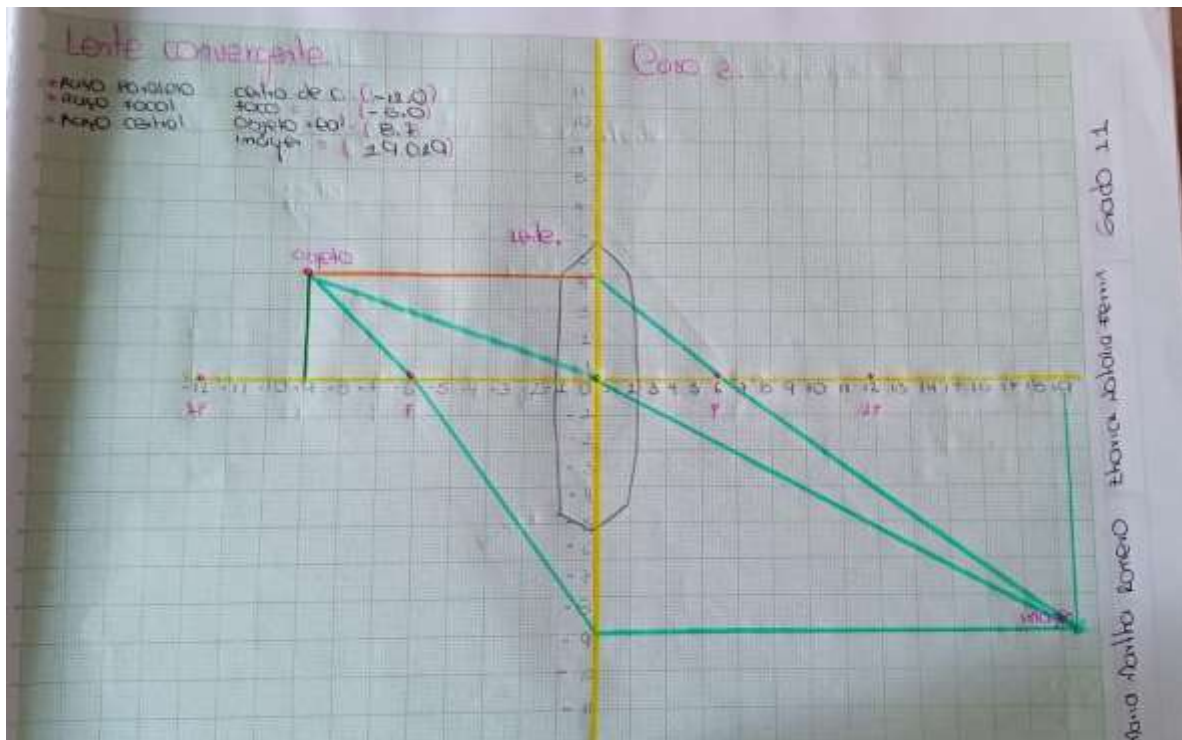
Leite convergente

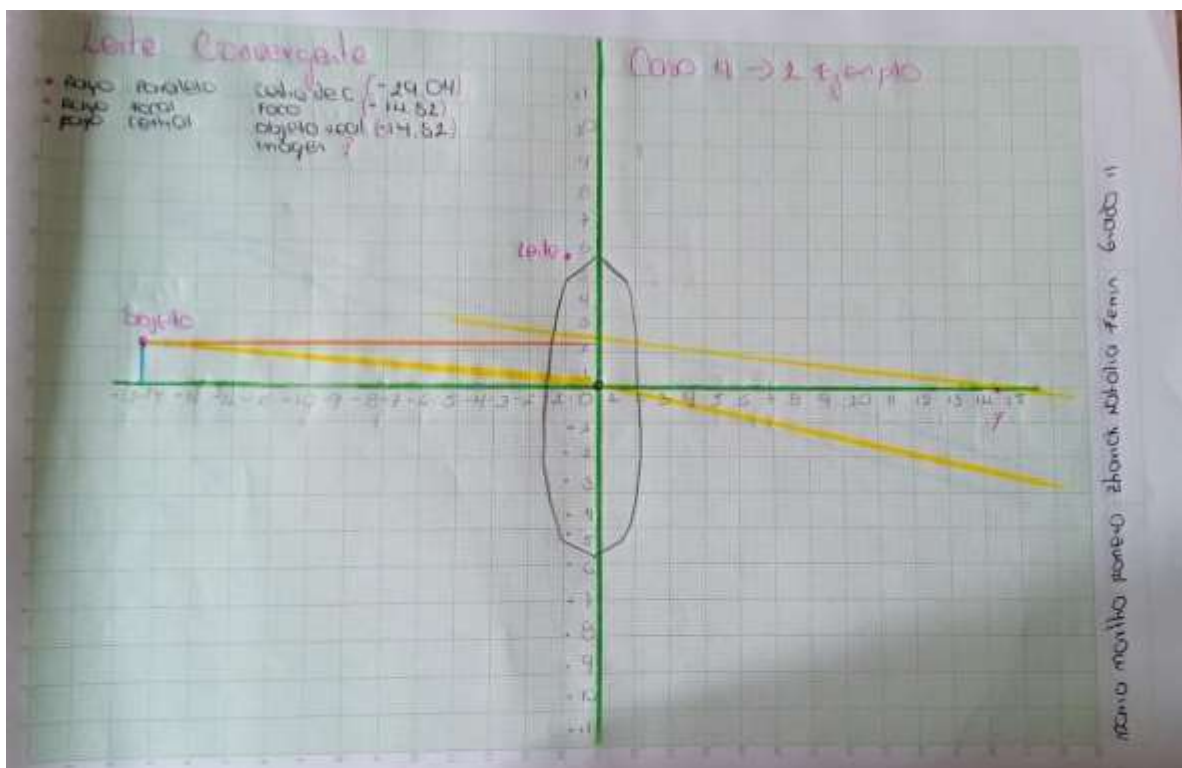
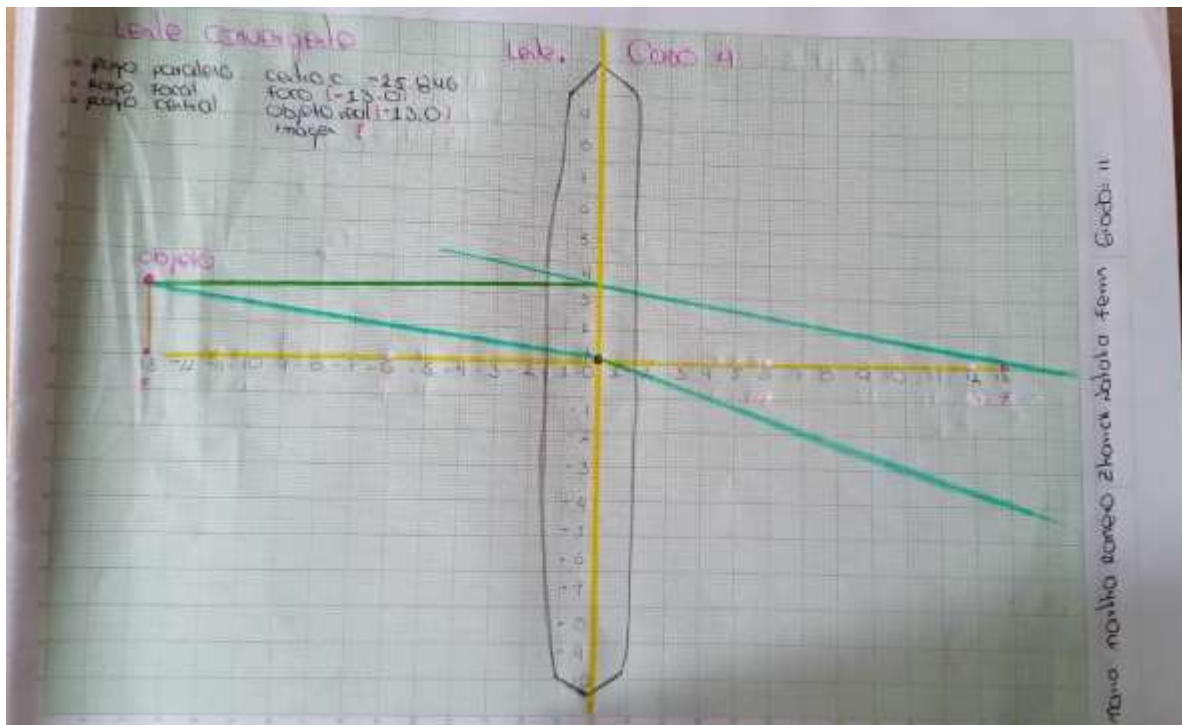
- Rayo paralelo centro del (-10,0)
- Rayo focal foco (-5,0)
- Rayo central obsid. del (-12,0)
- imagen (15,5)

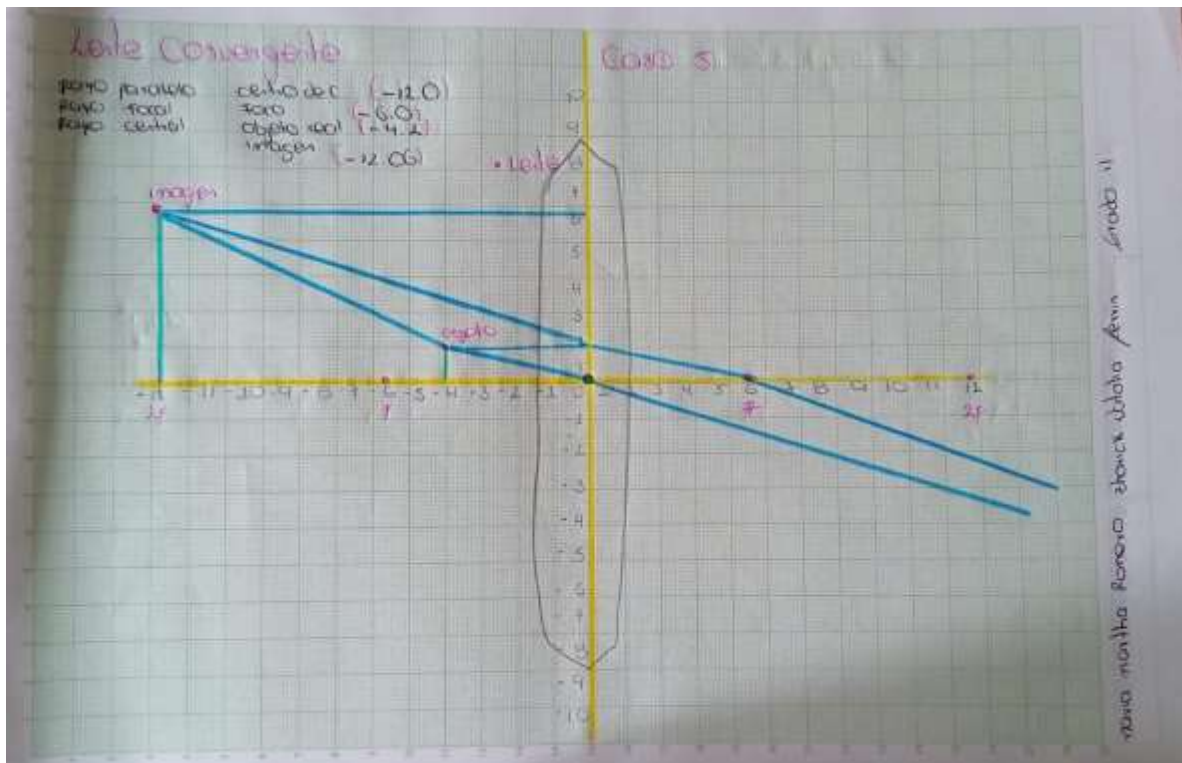
Case 2 $\rightarrow$ Example 2



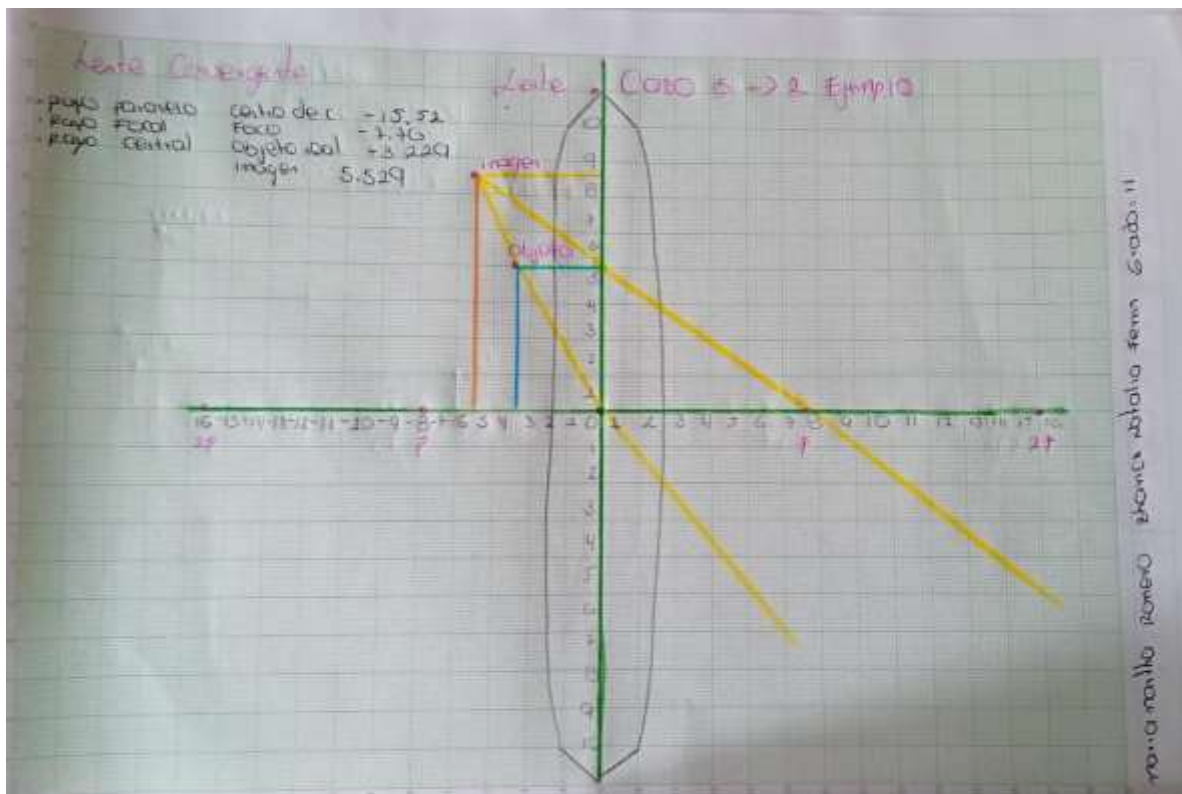
Grade 2.1
unlike division remains
constant different ones



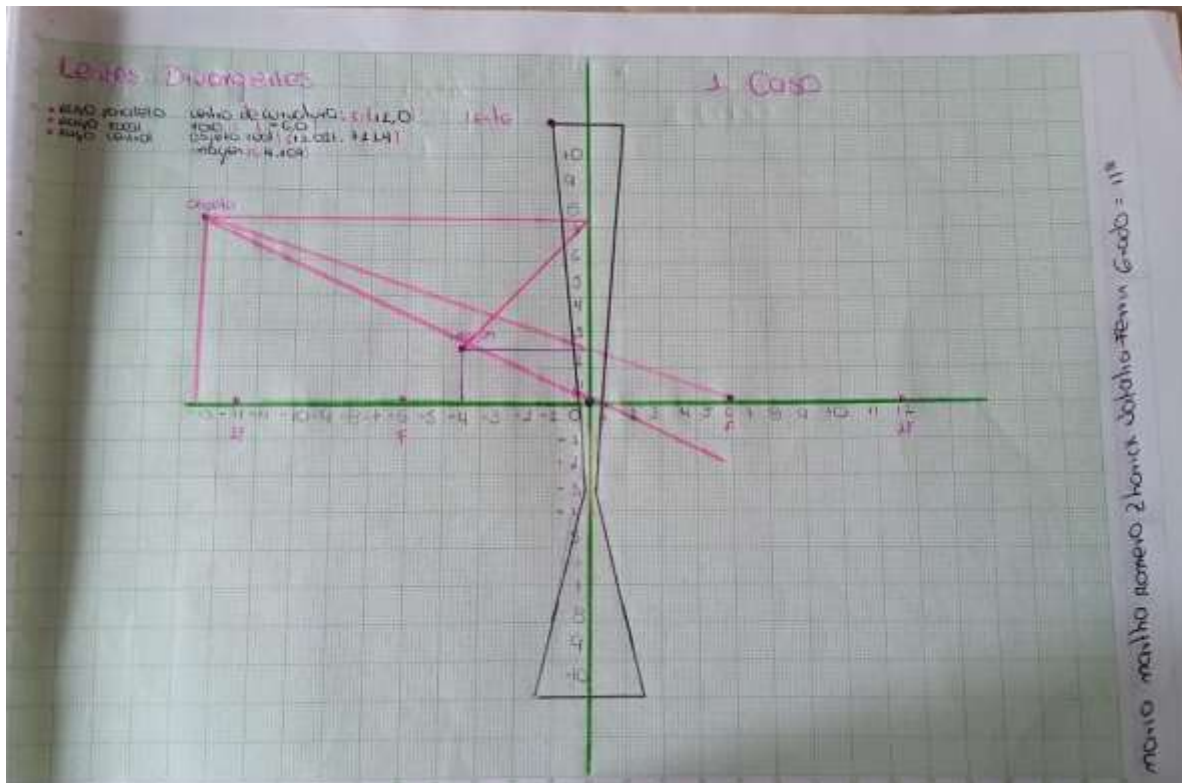




L



LENTE DIVERGENTES



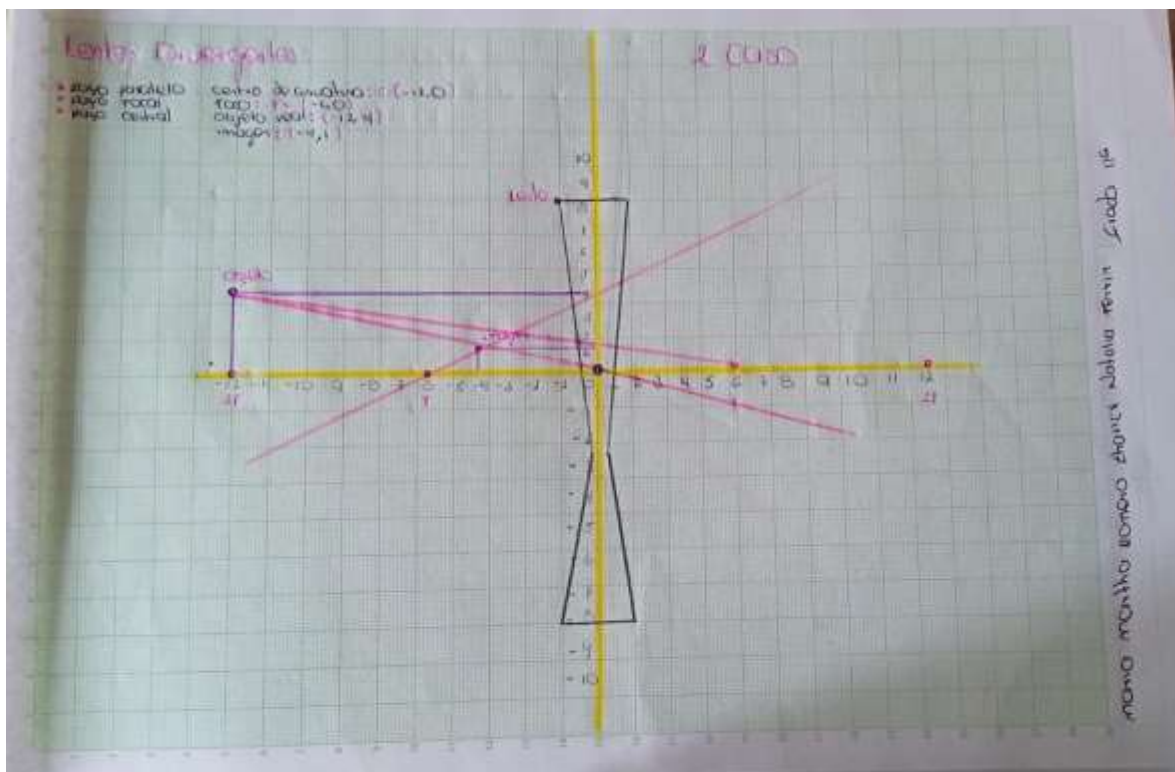
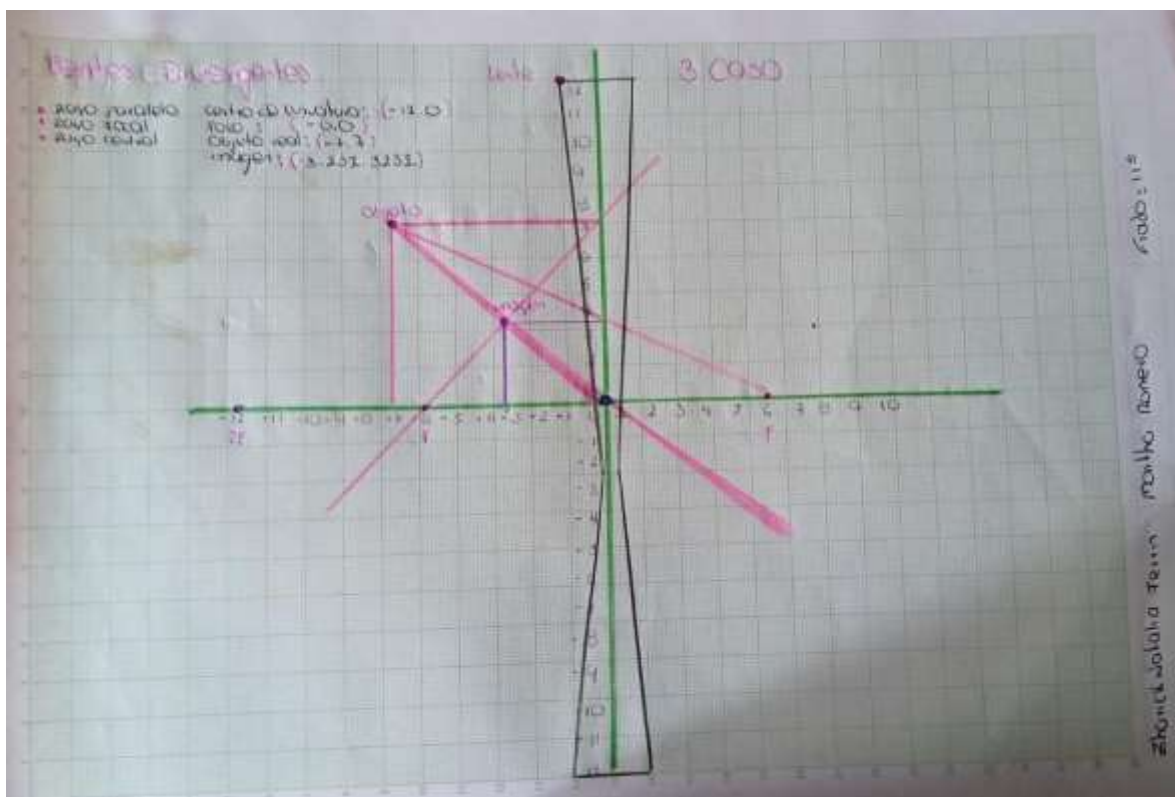


imagem menor, direita, virtual, entre o foco e o lente



imagem

menor, direita, virtual, entre o foco e o lente

