

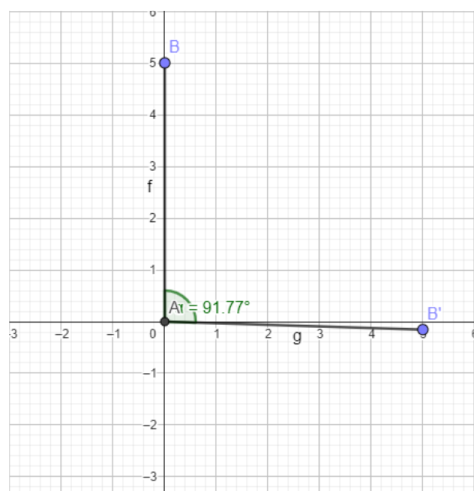
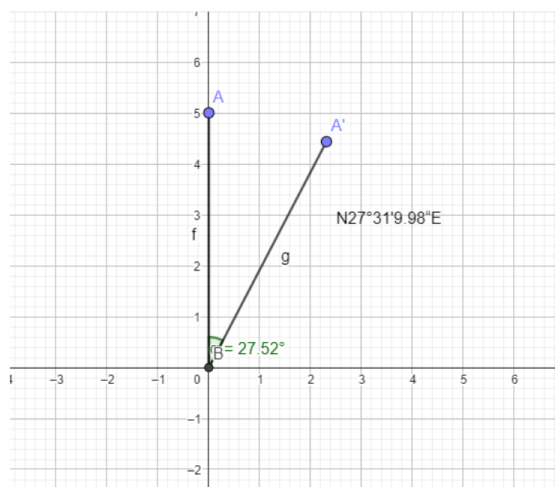
Universidad de San Carlos de Guatemala
Centro Universitario de Occidente
División de Ciencias de Ingeniería
Laboratorio de topografía 1
Auxiliar Mario Ordoñez Pérez

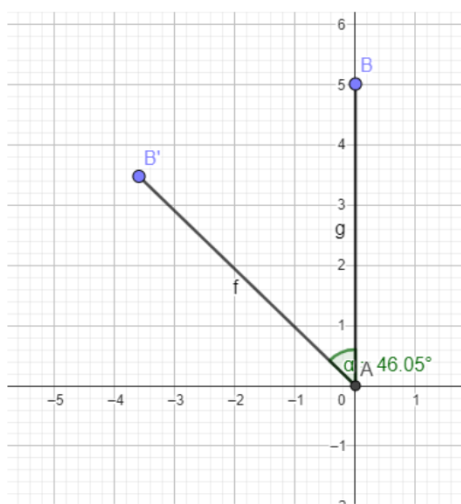
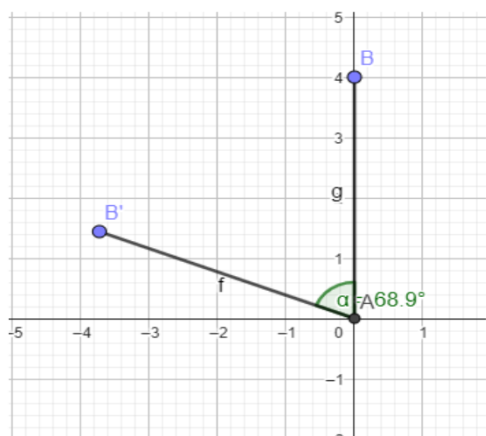
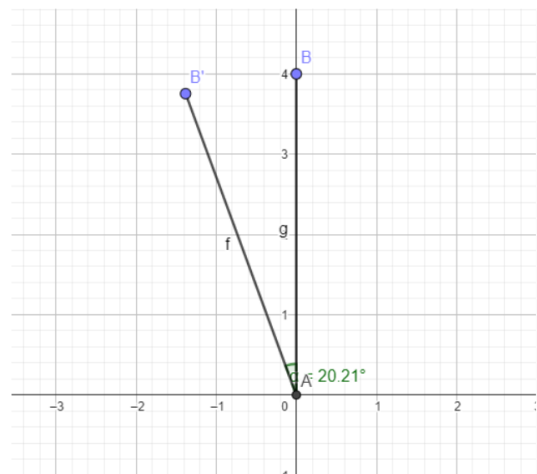
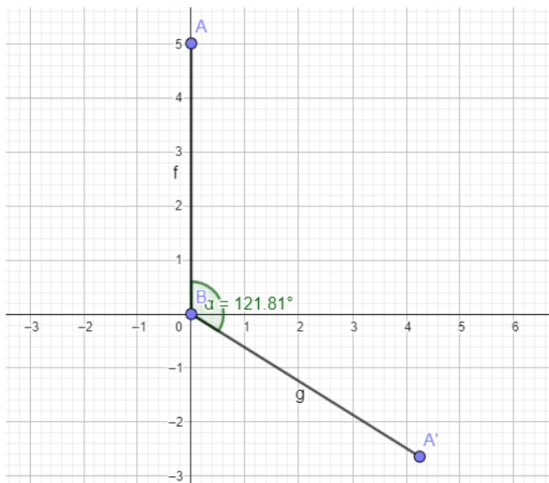
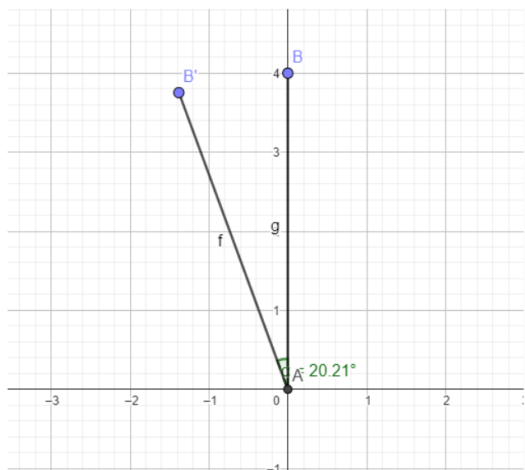
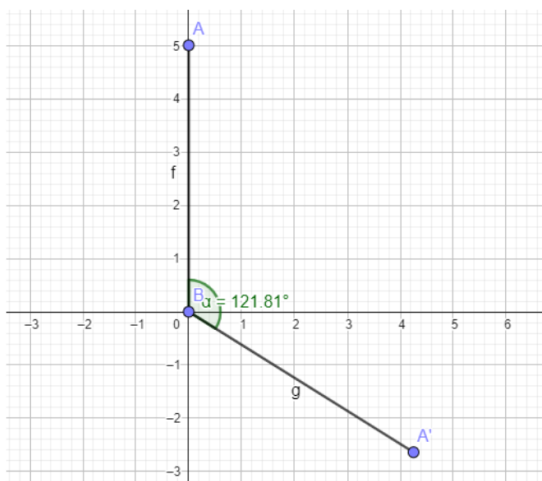
Hoja de trabajo 2
Conversión y Gráfica de
Azimuts y Rumbos

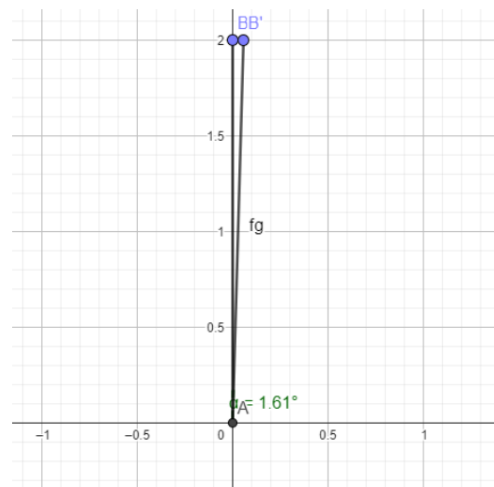
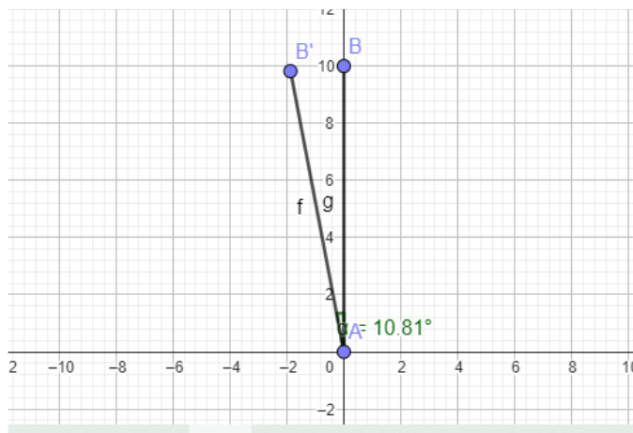
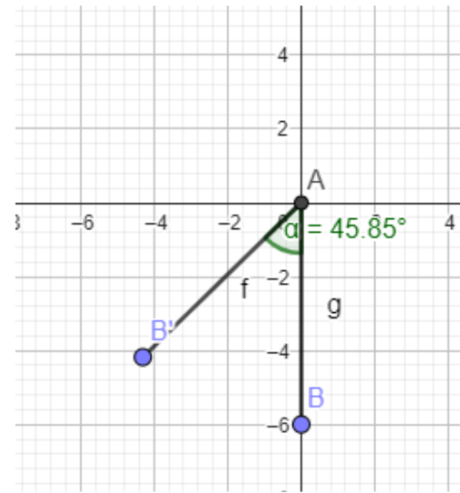
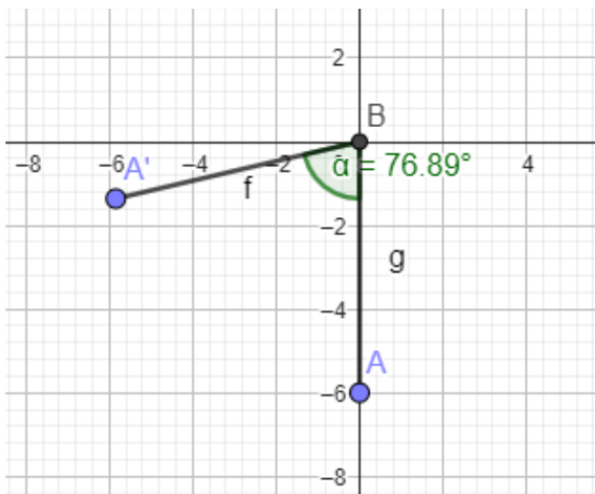
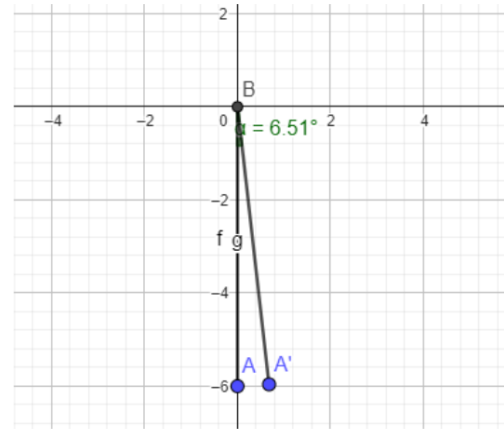
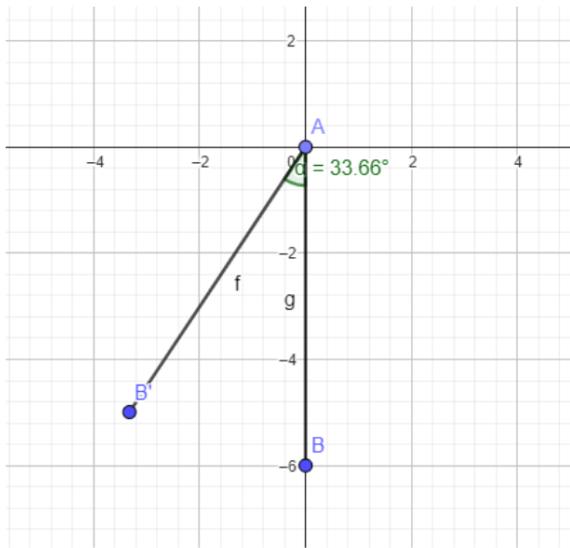
Marlon Ivan Carreto Rivera
201230088

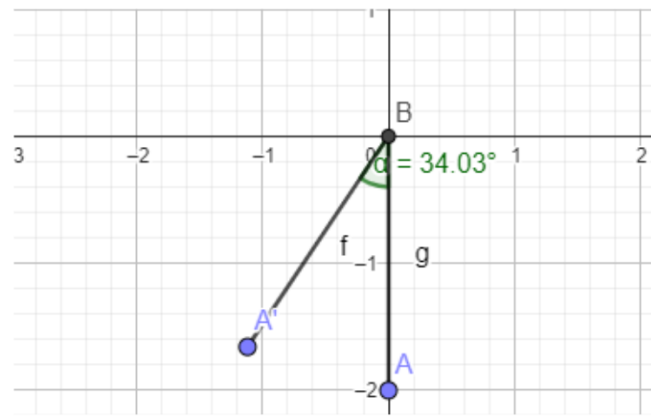
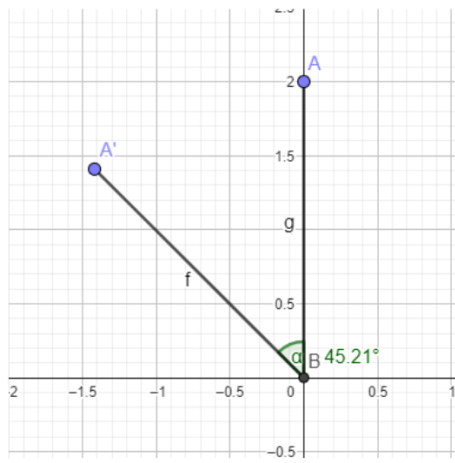
AZIMUT A RUMBOS

Azimut	Procedimiento	Rumbo
27°31'10"	1er. Cuadrante Rumbo=Azimut	N 27°31'9.98" E
91°46'15"	91°46'15"-180°0'0"	S 88°13'45" E
121°48'40"	121°48'40"-180°0'0"	S 58°11'20" E
339°47'40"	339°47'40"-360°0'0"	N 20°12'20" O
291°06'05"	291°06'05"-360°0'0"	N 68°53'55" O
313°56'45"	313°56'45"-360°0'0"	N 46°03'15" O
236°20'20"	236°20'20" -270°0'0"	S 33°39'40" O
173°29'20"	173°29'20" -180°0'0"	S 6°30'40" E
193°18'40"	193°18'40"-270°0'0"	S 76°53'20" O
224°9'0"	224°9'0" - 270°0'0"	S 45°51'00" O
349°11'20"	349°11'20"-360°0'0"	N 10°48'40"
1°36'40"	1er. Cuadrante Rumbo=Azimut	N 1°36'40" E
314°47'20"	314°47'20" -360°0'0"	N 45°12'40" O
235°58'20"	235°58'20" -270°0'0"	S 34°01'40" O









RUMBOS A AZIMUT

Rumbo	conversión	Azimut
S 82°45'7" E	180°-82.751911	97°14'53"
N 76°25'40" E	1er. Cuadrante Rumbo=Azimut	76°25'40"
N 17°45'10" W	360°17.7527°	342°14'50"
S 85° 30' E	180°-85.5°	94°30'00"
S 82°45'7"E	180°-82.751°	97°14'53"
N 90°00' E	1er. Cuadrante Rumbo=Azimut	90°00'00"
S 45°00' E	180°-45°	135°0'00"
N 35°15'10" W	360°-35.25277°	324°44'50"
N 31°45'37" W	360°-31.76°	328°14'23"
N 51°9'37" W	360°-51.16027°	308°50'23"
S 50°39'8" W	180°+50.6522°	230°39'07"
S 40°21'6" W	180°+40.3516°	220°21'05"
S 62°14'38" E	180°-62.24388°	117°45'22"
S 6°59'2" W	180°+6.98388°	186°59'01"

