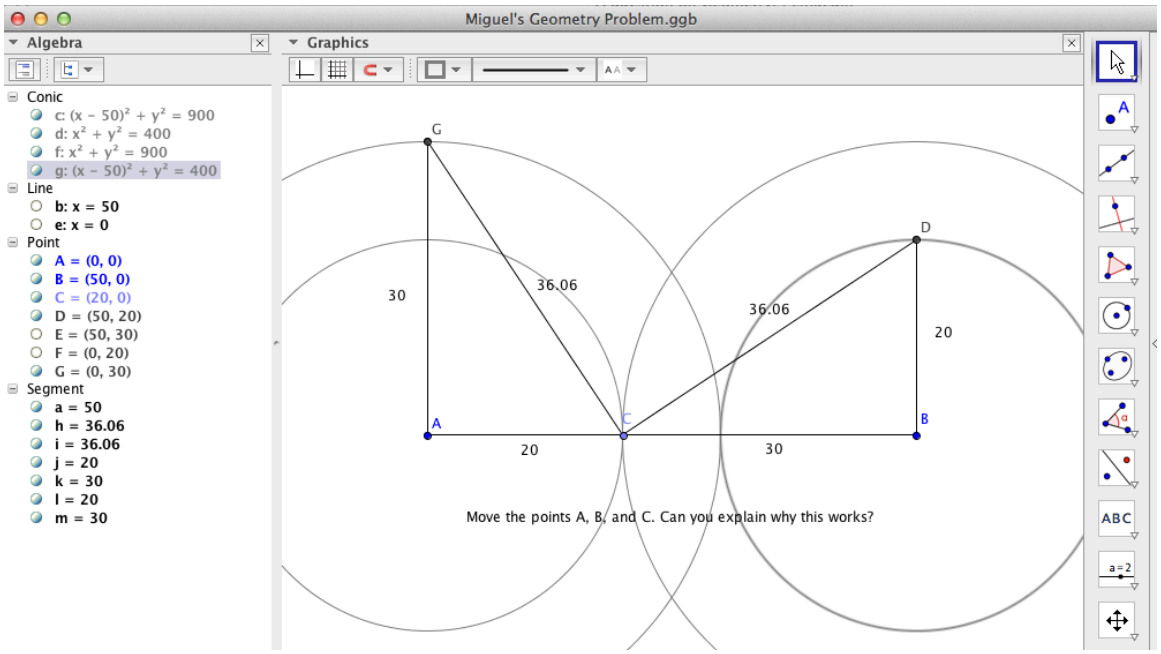
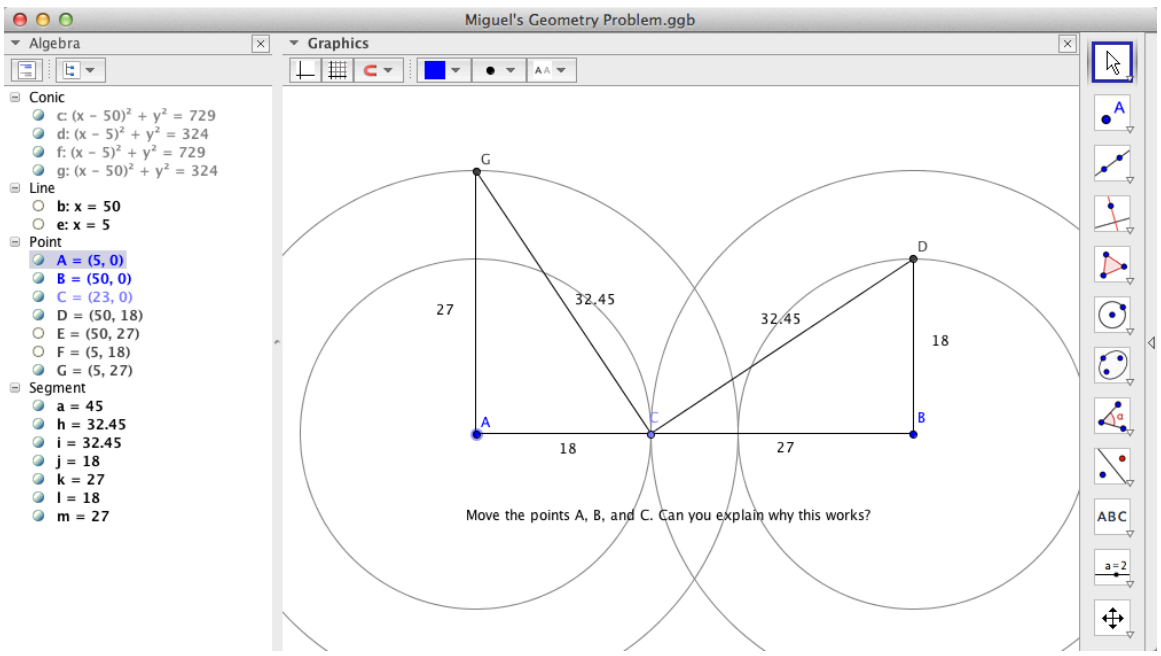
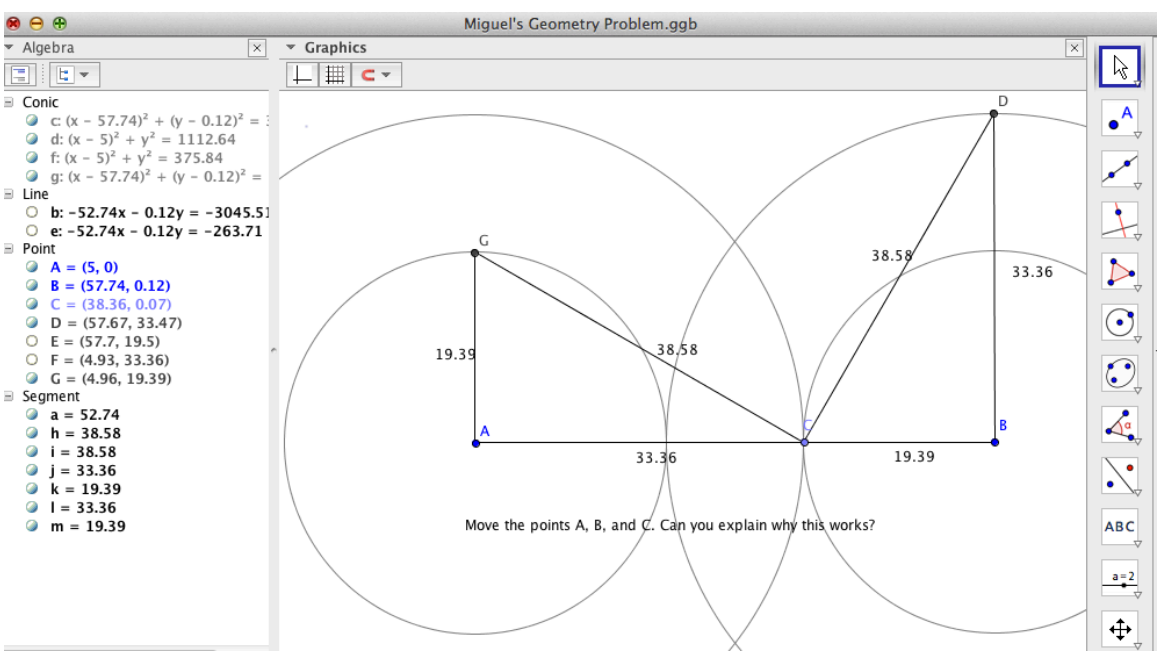

Miguel's Geometry Problem.ggb
Algebra
Graphics
Conic
c: (x − 50)² + y² = 900
d: x² + y² = 400
f: x² + y² = 900
g: (x − 50)² + y² = 400
Line
b: x = 50
e: x = 0
Point
A = (0, 0)
B = (50, 0)
C = (20, 0)
D = (50, 20)
E = (50, 30)
F = (0, 20)
G = (0, 30)
Segment
a = 50
h = 36.06
i = 36.06
j = 20
k = 30
l = 20
m = 30
G
D
30
36.06
36.06
20
A
C
B
20
30
Move the points A, B, and C. Can you explain why this works?


Miguel's Geometry Problem.ggb
Algebra
Graphics
Conic
c: (x − 50)² + y² = 729
d: (x − 5)² + y² = 324
f: (x − 5)² + y² = 729
g: (x − 50)² + y² = 324
Line
b: x = 50
e: x = 5
Point
A = (5, 0)
B = (50, 0)
C = (23, 0)
D = (50, 18)
E = (50, 27)
F = (5, 18)
G = (5, 27)
Segment
a = 45
h = 32.45
i = 32.45
j = 18
k = 27
l = 18
m = 27
G
D
27
32.45
32.45
18
A
C
B
18
27
Move the points A, B, and C. Can you explain why this works?


Miguel's Geometry Problem.ggb
Algebra
Graphics
Conic
c: (x − 57.74)² + (y − 0.12)² =
d: (x − 5)² + y² = 1112.64
f: (x − 5)² + y² = 375.84
g: (x − 57.74)² + (y − 0.12)² =
Line
b: −52.74x − 0.12y = −3045.51
e: −52.74x − 0.12y = −263.71
Point
A = (5, 0)
B = (57.74, 0.12)
C = (38.36, 0.07)
D = (57.67, 33.47)
E = (57.7, 19.5)
F = (4.93, 33.36)
G = (4.96, 19.39)
Segment
a = 52.74
h = 38.58
i = 38.58
j = 33.36
k = 19.39
l = 33.36
m = 19.39
D
G
38.58
33.36
19.39
38.58
A
C
B
33.36
19.39
Move the points A, B, and C. Can you explain why this works?