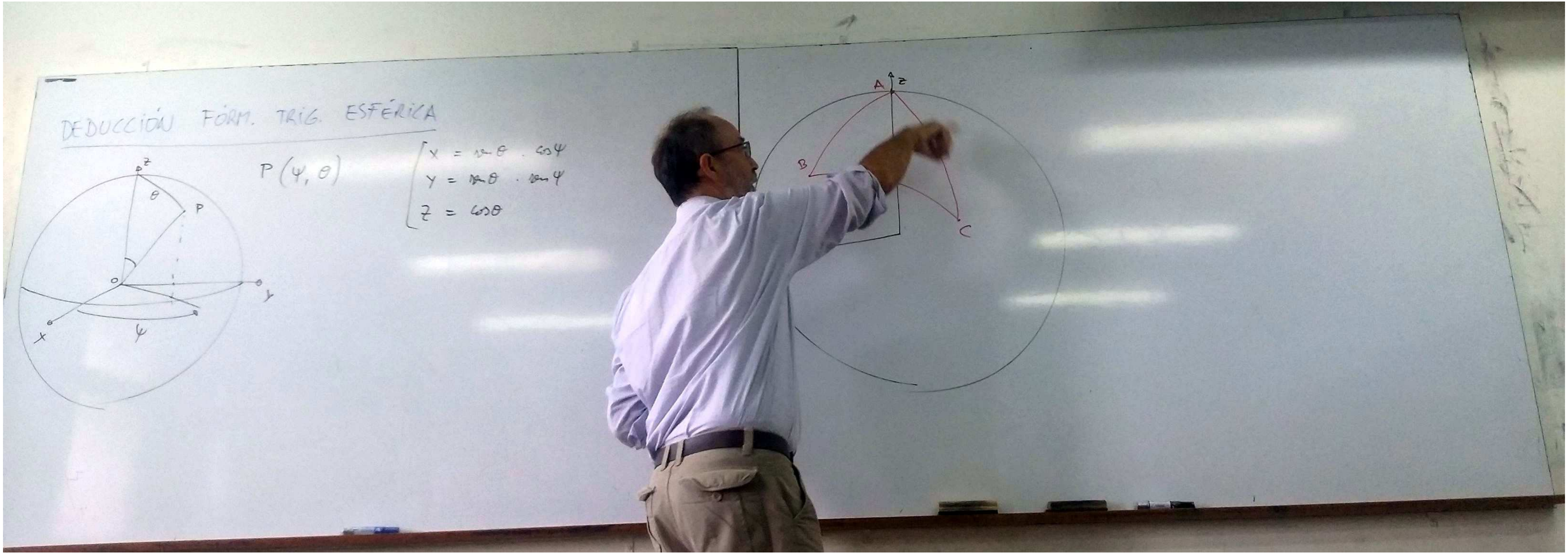
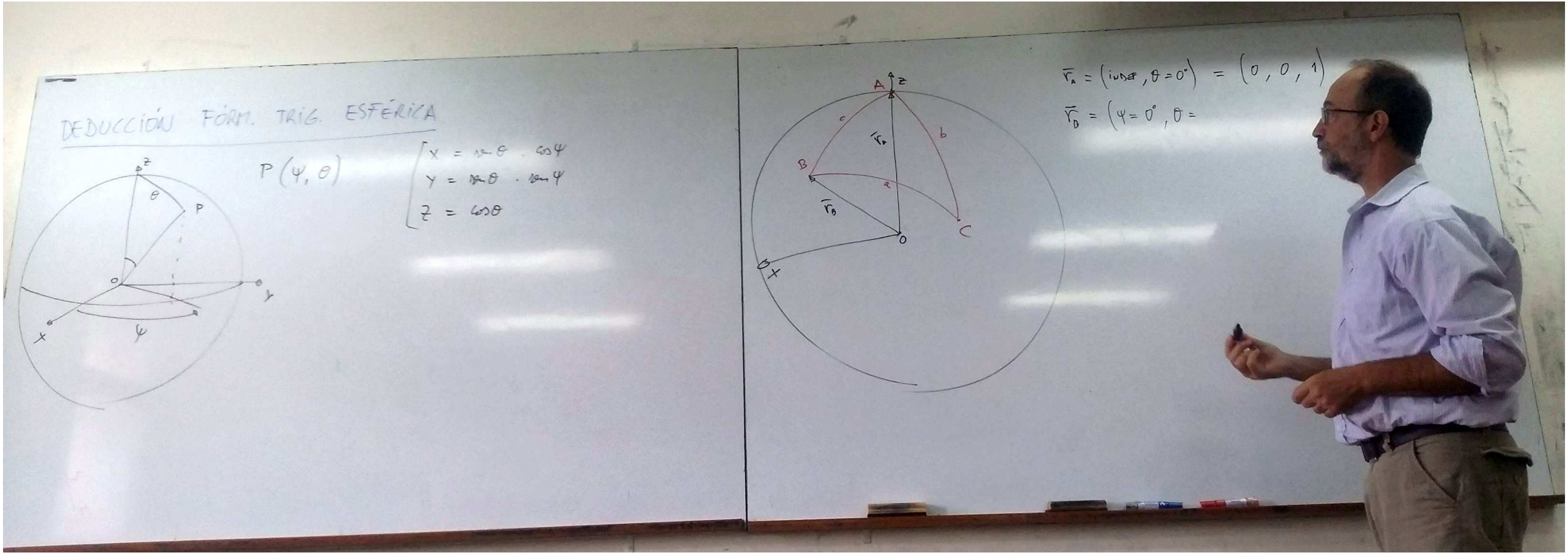
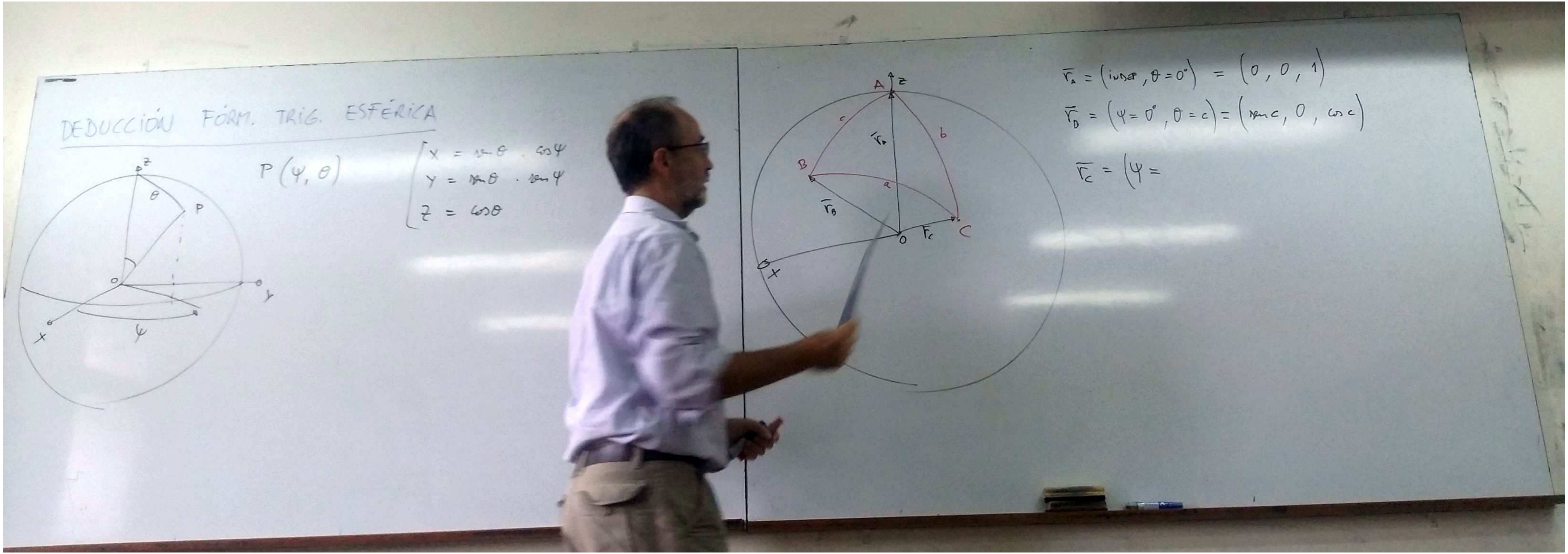
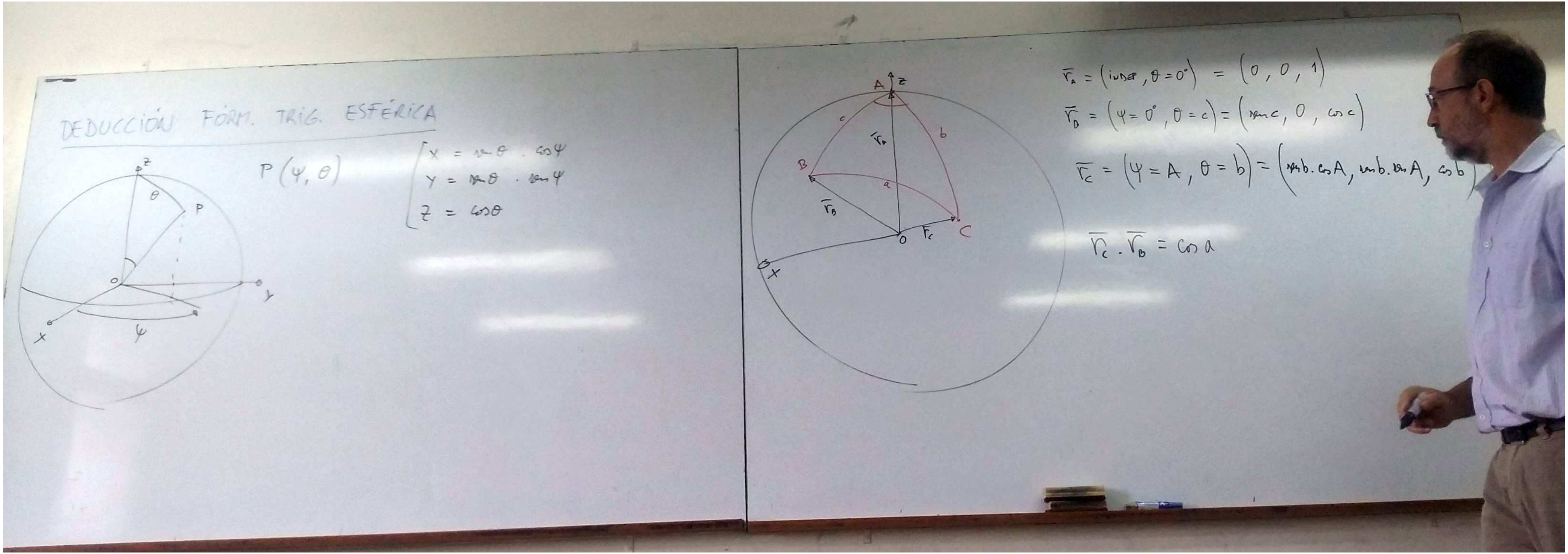
Astronomia Fundamental 2018 - clase 2

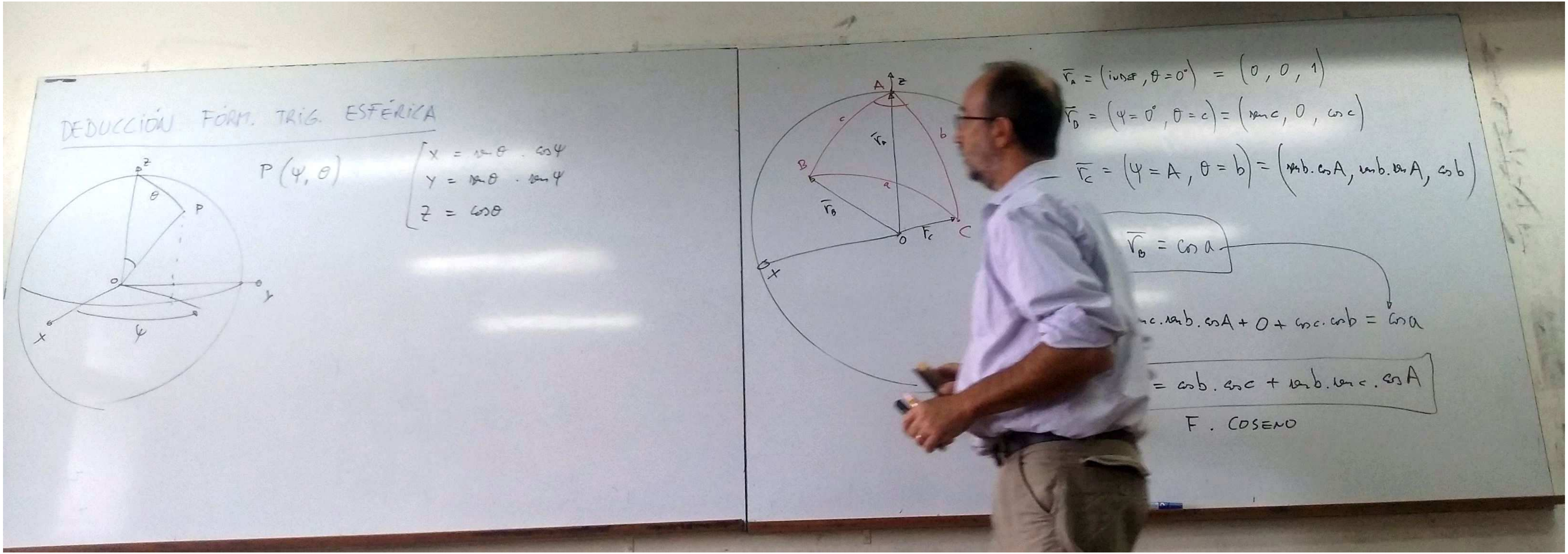


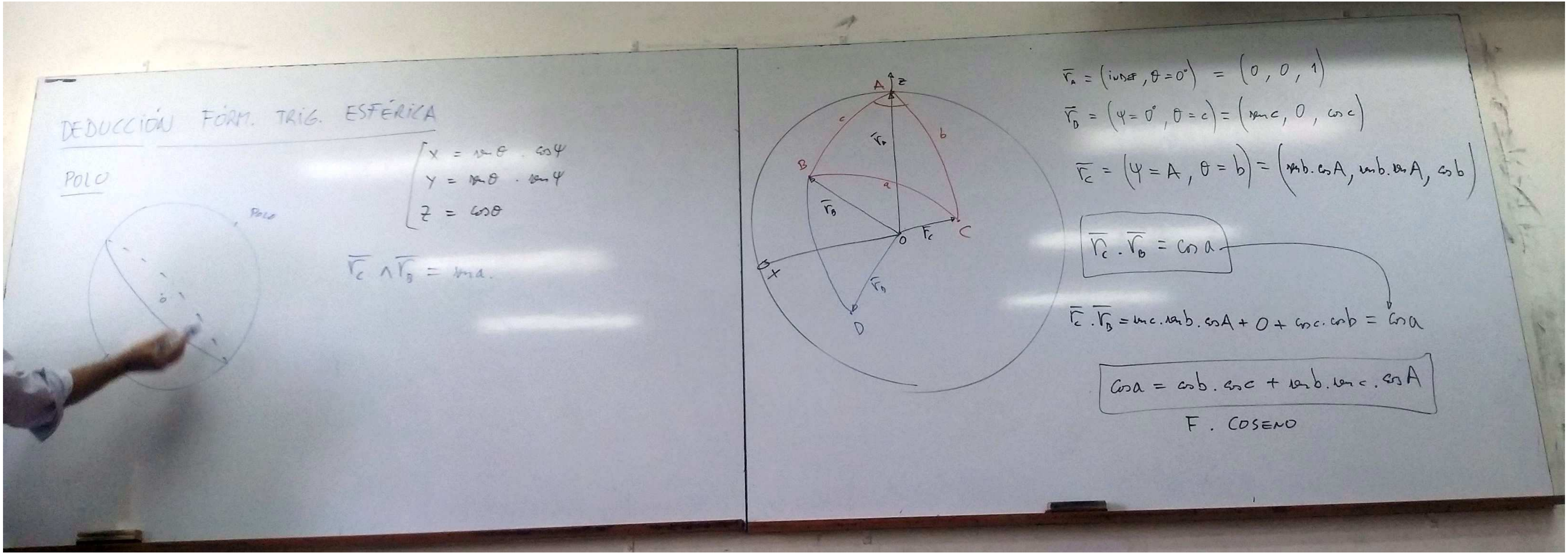
Astronomia Fundamental 2018 - clase 2



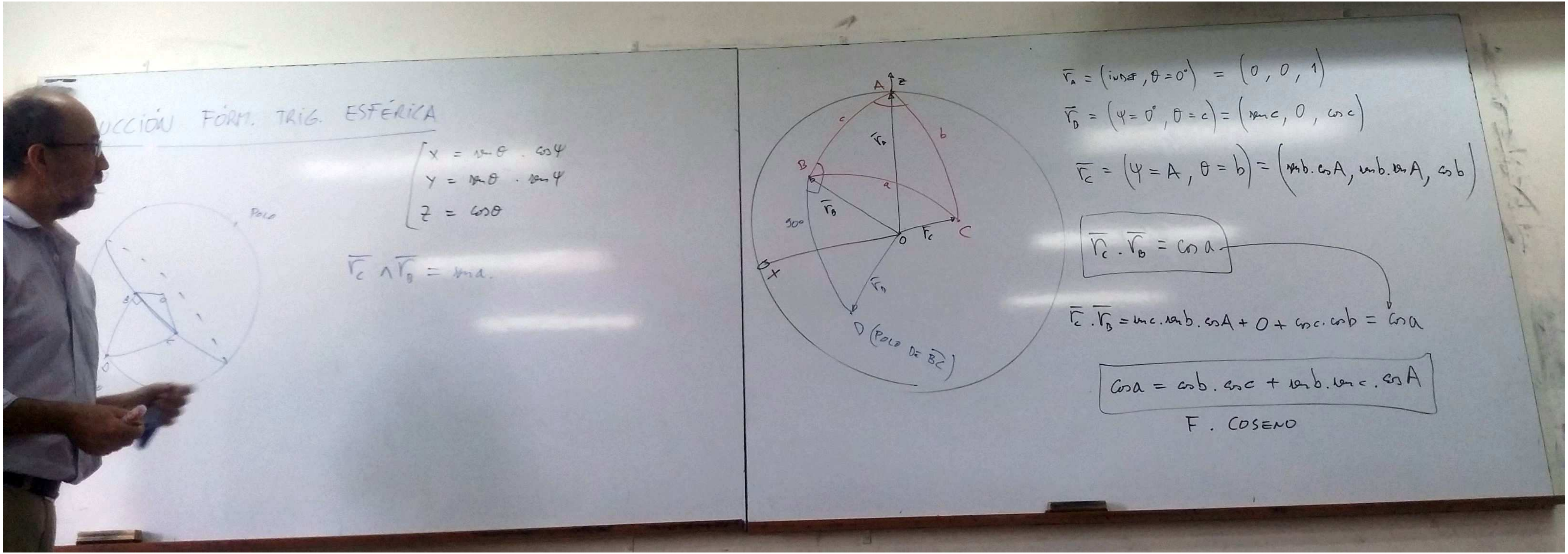

DEDUCCIÓN FÓRM. TRIG. ESFÉRICA
P (φ, θ)
x = sen θ . cos φ
y = sen θ . sen φ
z = cos θ
r̄A = (indef , θ = 0°) = (0 , 0 , 1)
r̄B = (φ = 0° , θ = c) = (sen c , 0 , cos c)
r̄C = (φ =

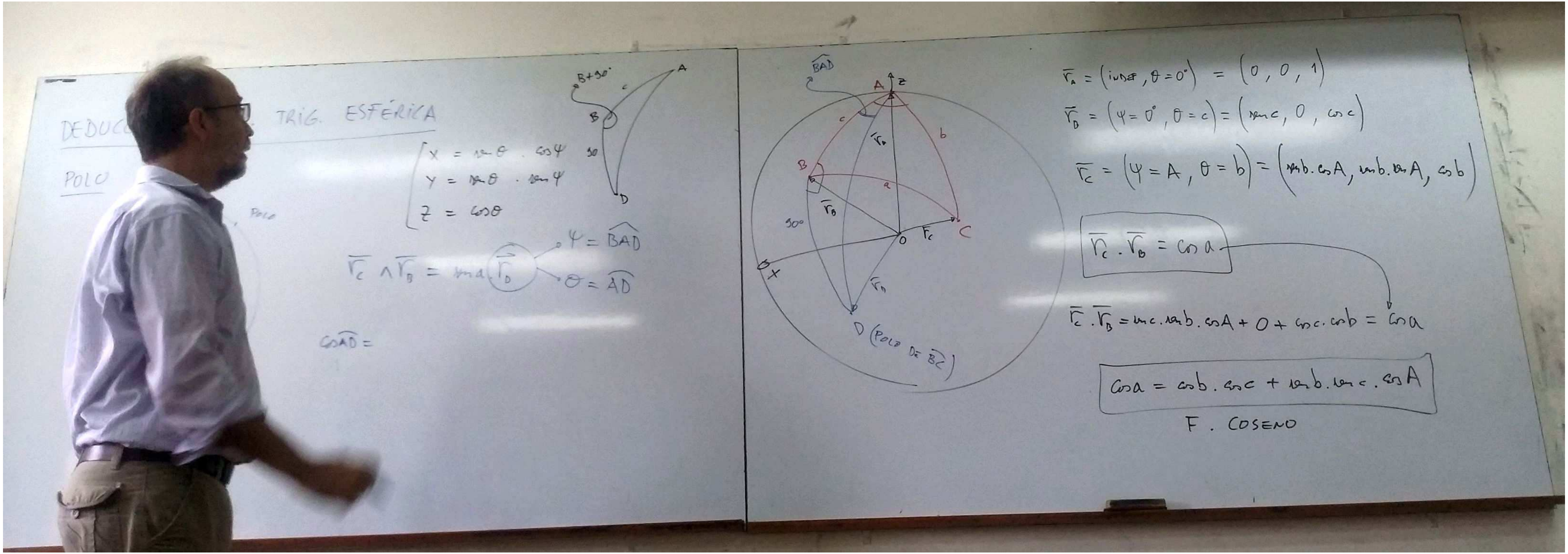

DEDUCCIÓN FÓRM. TRIG. ESFÉRICA
P (ψ, θ)
x = sen θ . cos ψ
y = sen θ . sen ψ
z = cos θ
r_A = (indet, θ = 0°) = (0, 0, 1)
r_B = (ψ = 0°, θ = c) = (sen c, 0, cos c)
r_C = (ψ = A, θ = b) = (sen b . cos A, sen b . sen A, cos b)
r_C . r_B = cos a


DEDUCCIÓN FÓRM. TRIG. ESFÉRICA
P (ψ, θ)
x = sen θ . cos ψ
y = sen θ . sen ψ
z = cos θ
r_A = (indef, θ = 0°) = (0, 0, 1)
r_B = (ψ = 0°, θ = c) = (sen c, 0, cos c)
r_C = (ψ = A, θ = b) = (sen b . cos A, sen b . sen A, cos b)
r_B = cos a
c . sen b . cos A + 0 + cos c . cos b = cos a
= cos b . cos c + sen b . sen c . cos A
F . COSENO

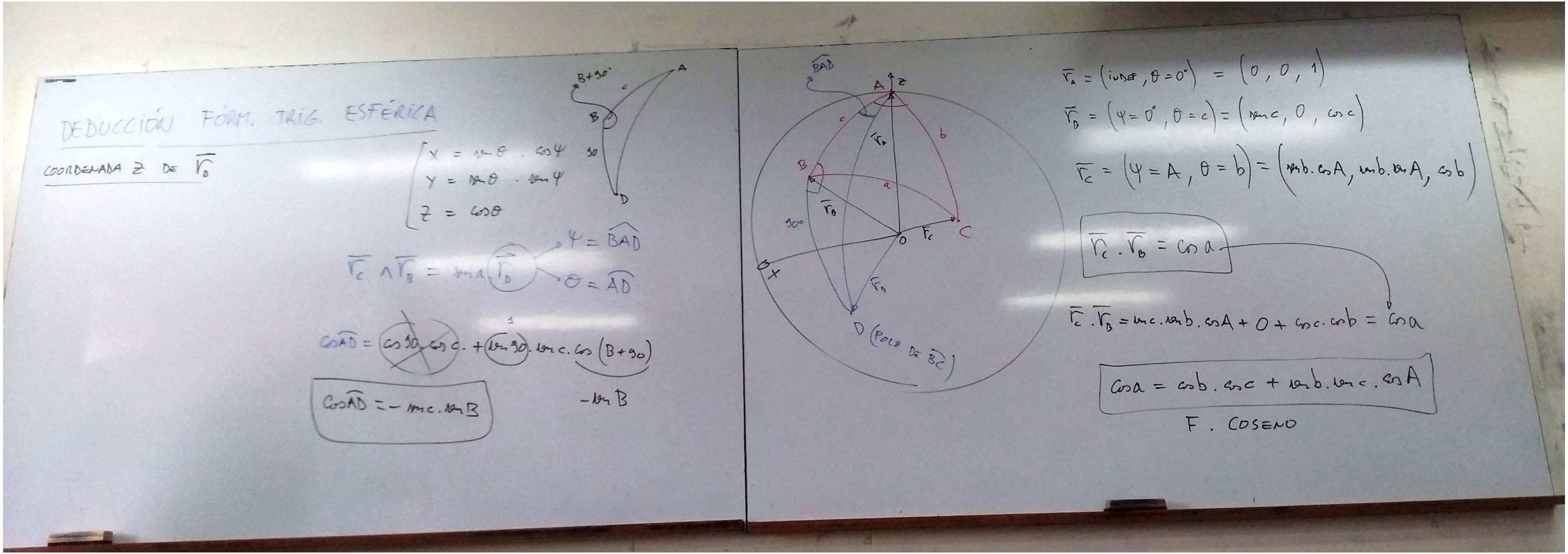

DEDUCCIÓN FÓRM. TRIG. ESFÉRICA
POLO
POLO
x = sen θ . cos ψ
y = sen θ . sen ψ
z = cos θ
r̄_C ∧ r̄_B = sen a
A
z
c
b
r̄_A
B
a
r̄_B
O
r̄_C
C
x
r̄_D
D
r̄_A = (indet, θ = 0°) = (0, 0, 1)
r̄_B = (ψ = 0°, θ = c) = (sen c, 0, cos c)
r̄_C = (ψ = A, θ = b) = (sen b . cos A, sen b . sen A, cos b)
r̄_C . r̄_B = cos a
r̄_C . r̄_B = sen c . sen b . cos A + 0 + cos c . cos b = cos a
cos a = cos b . cos c + sen b . sen c . cos A
F. COSENO

Astronomia Fundamental 2018 - clase 2

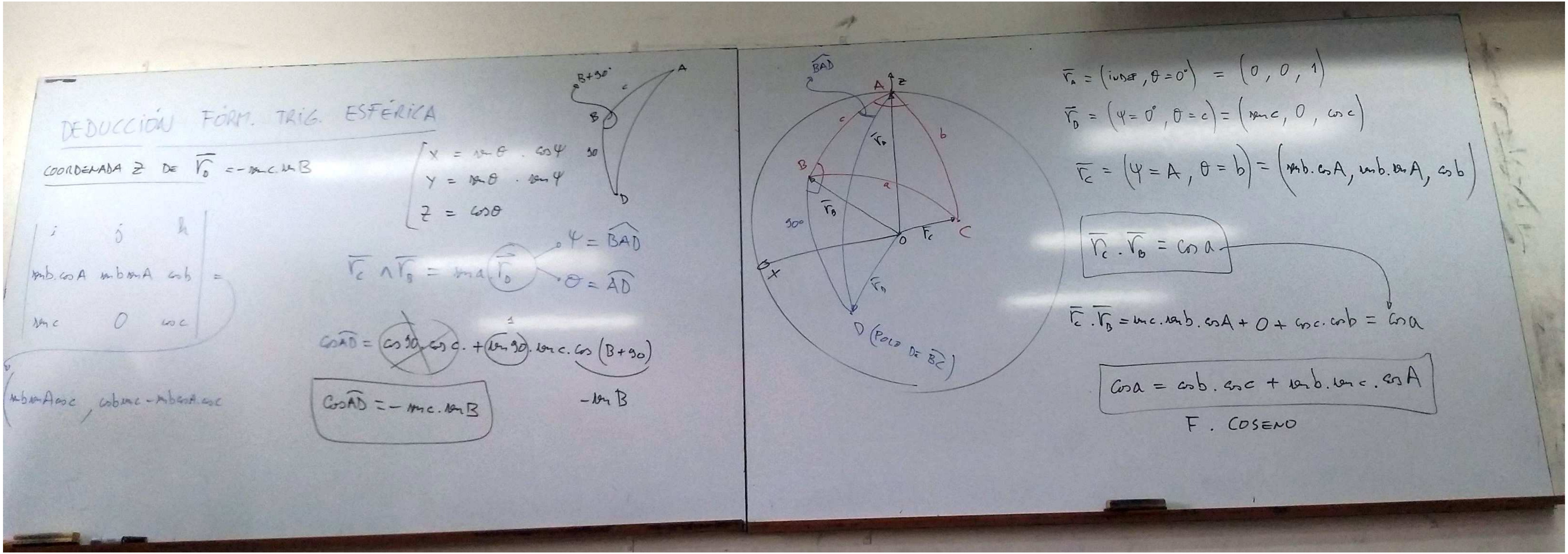



TRIG. ESFÉRICA
POLO
F. COSENO

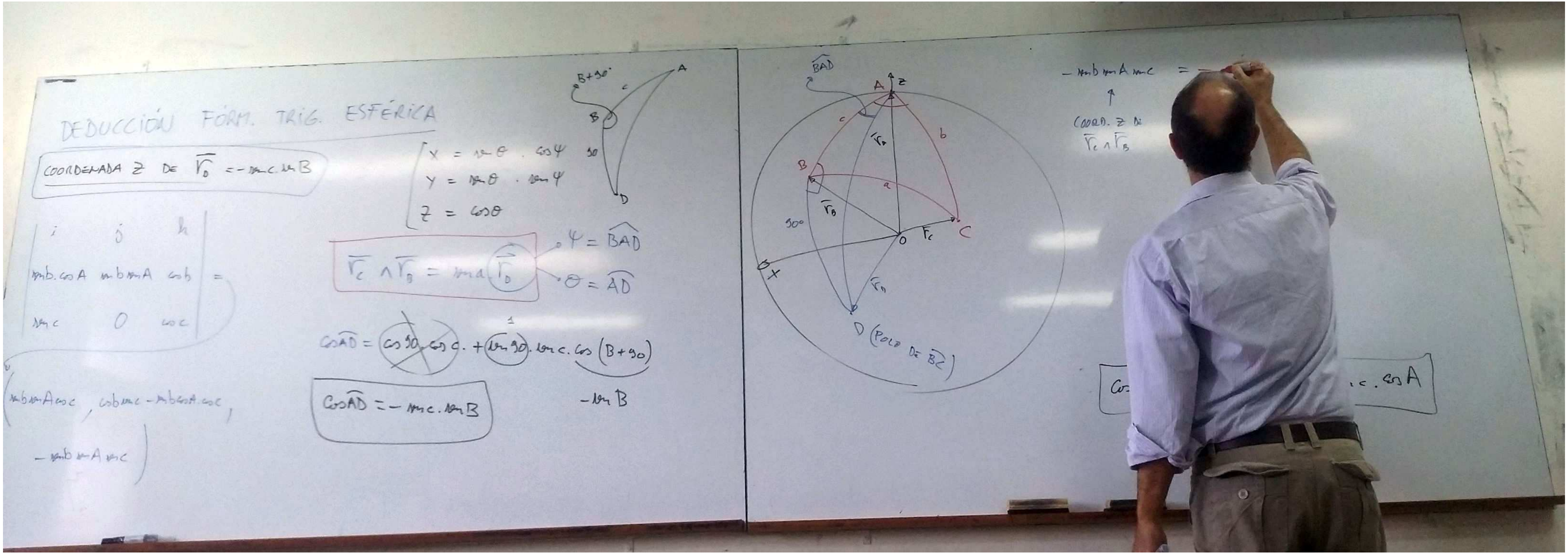
Astronomia Fundamental 2018 - clase 2



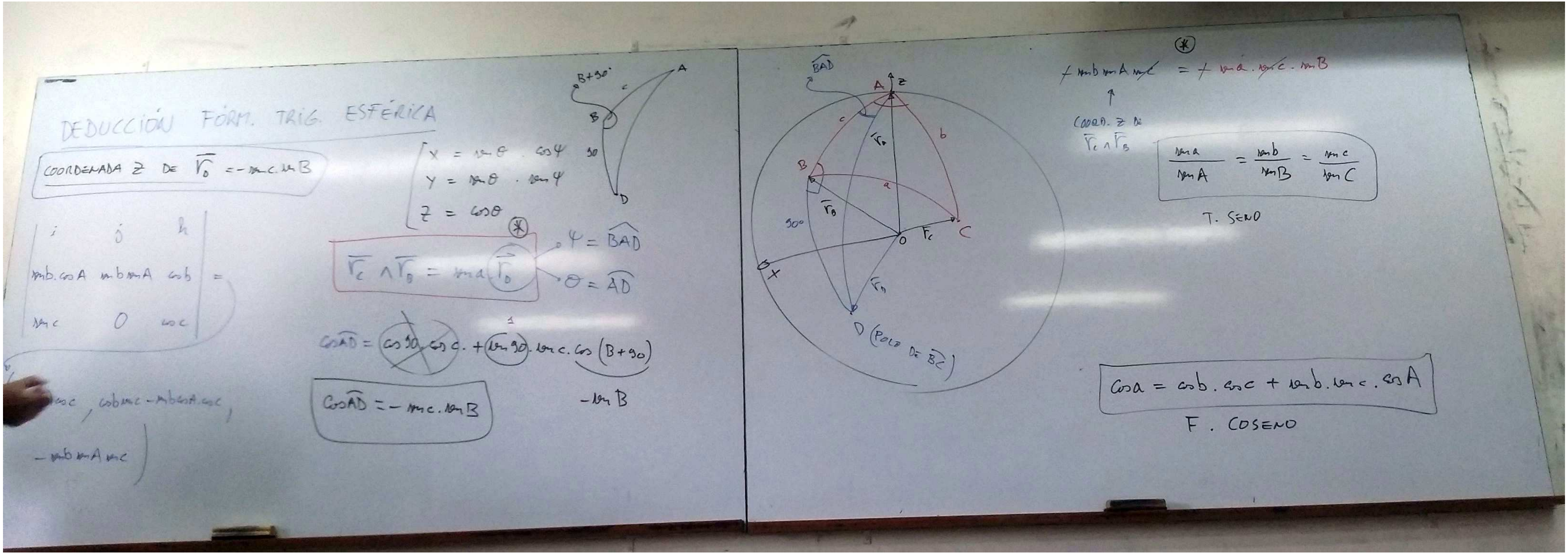
Astronomia Fundamental 2018 - clase 2

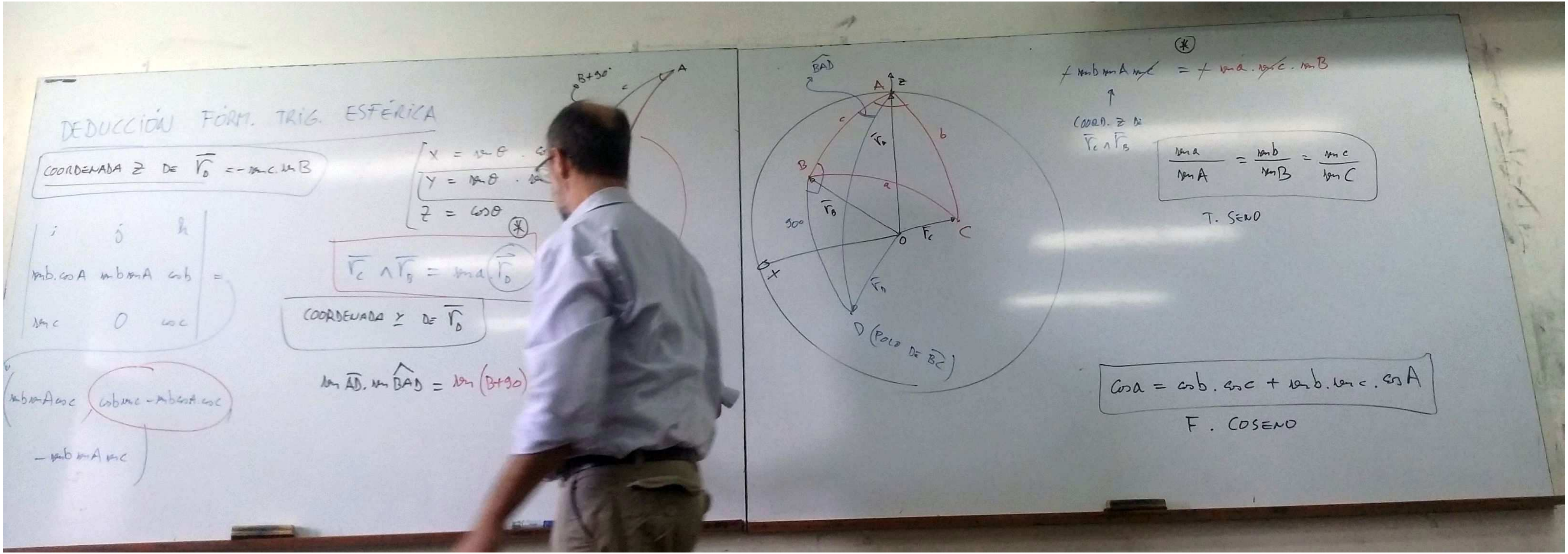


Astronomia Fundamental 2018 - clase 2

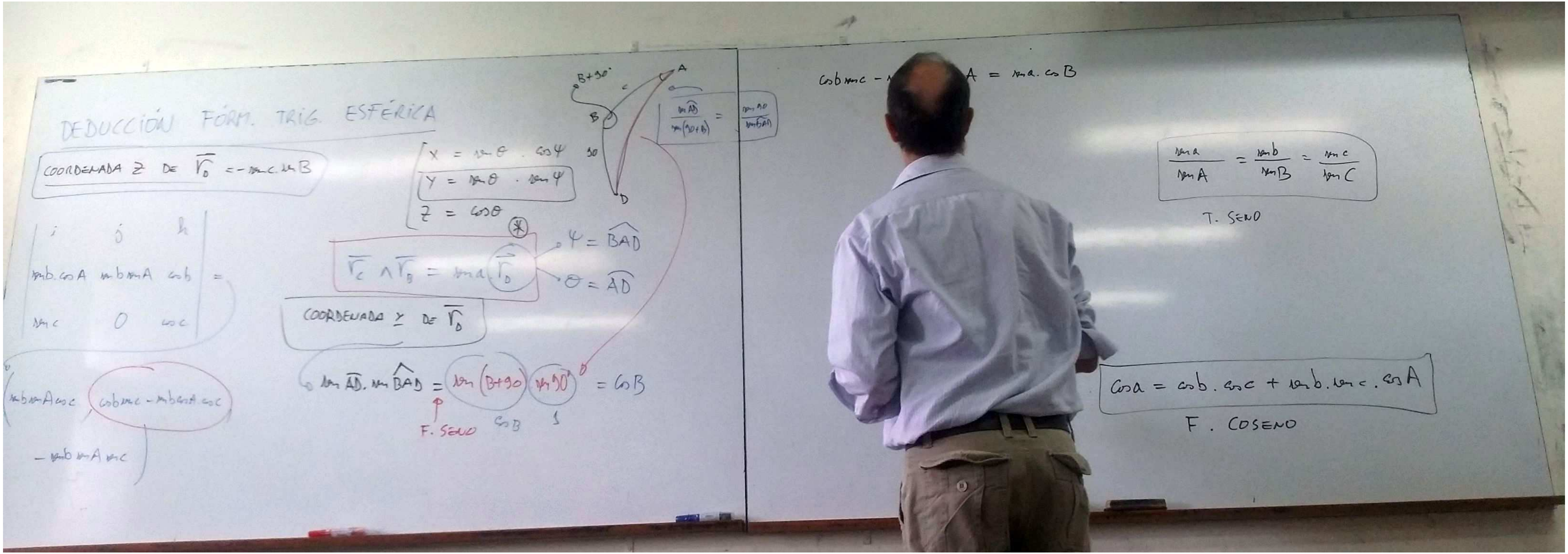


Astronomia Fundamental 2018 - clase 2

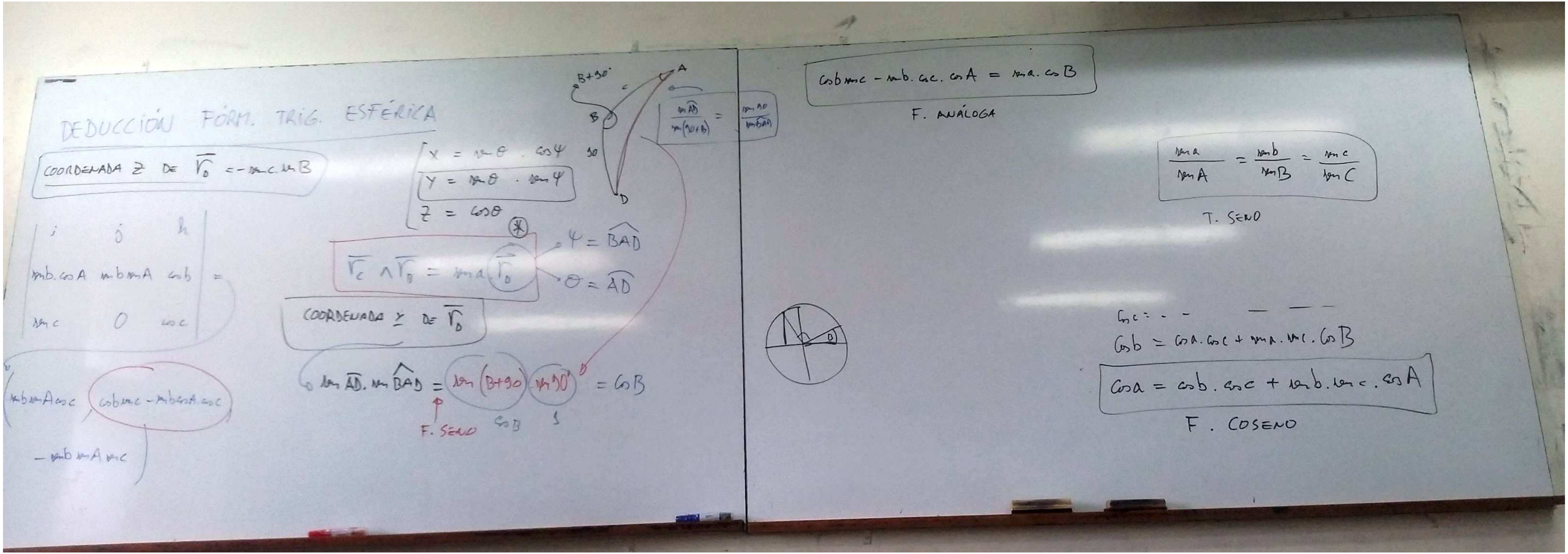



DEDUCCIÓN FÓRM. TRIG. ESFÉRICA
COORDENADA Z DE r_D
COORDENADA Y DE r_D
BAD
D (POLO DE BC)
T. SENO
F . COSENO

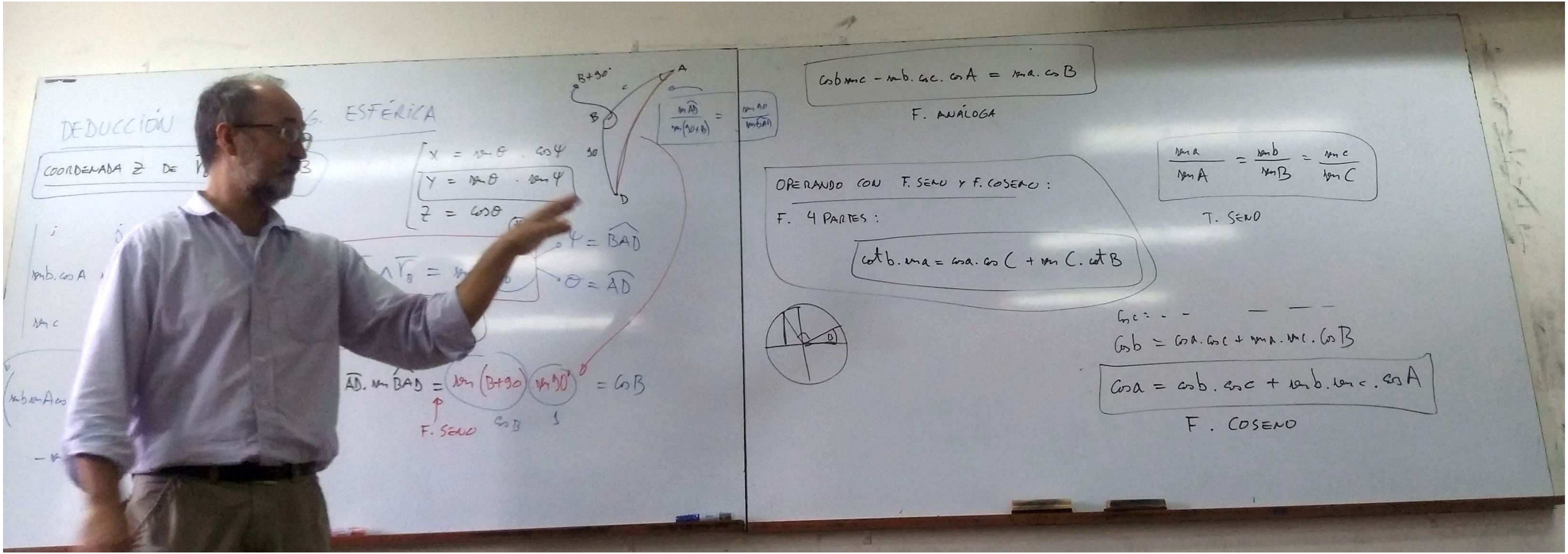
Astronomia Fundamental 2018 - clase 2



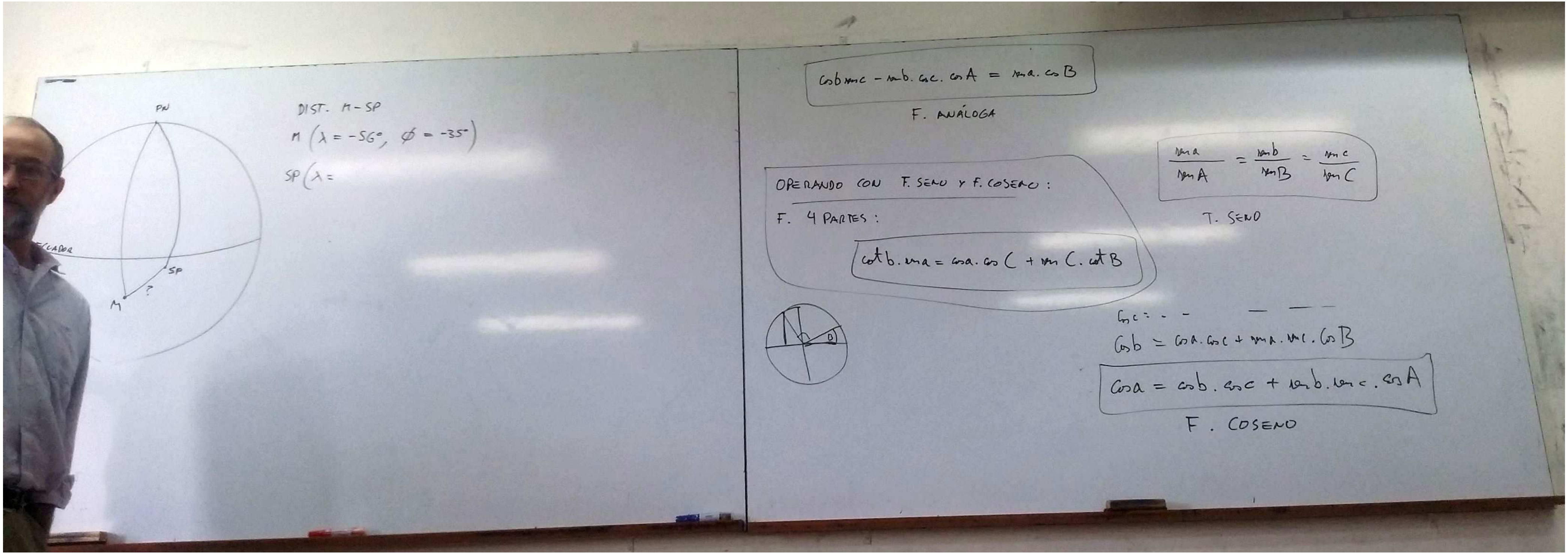
Astronomia Fundamental 2018 - clase 2



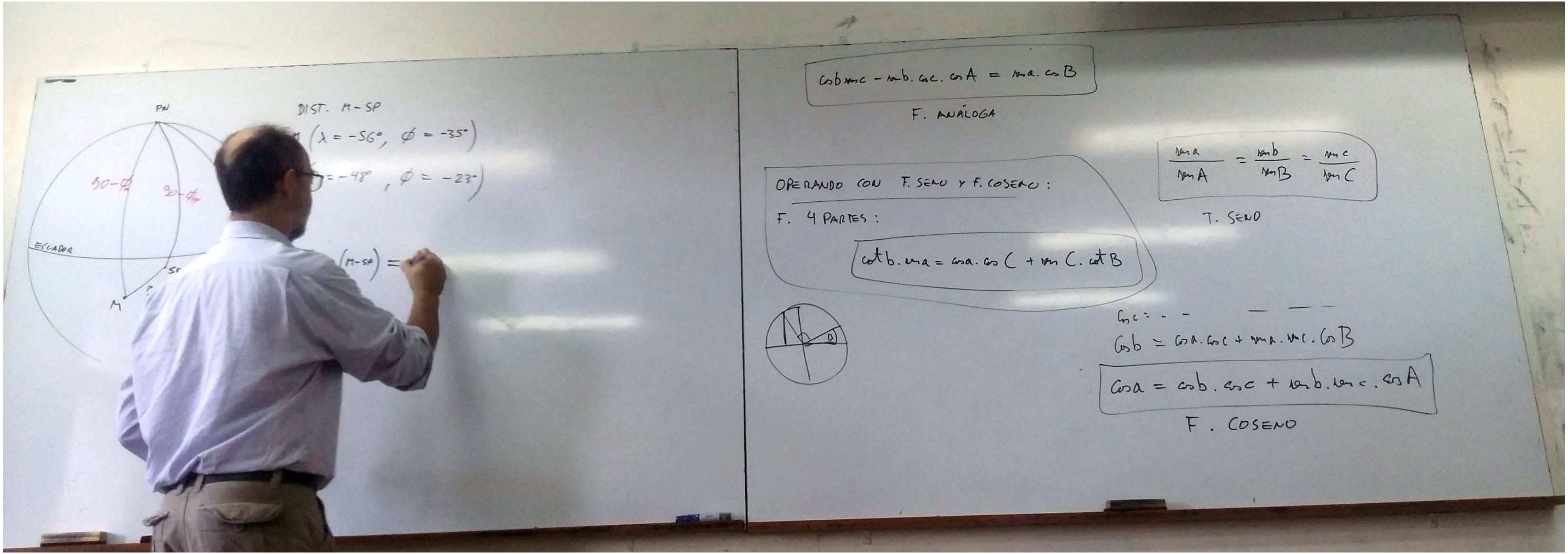
Astronomia Fundamental 2018 - clase 2



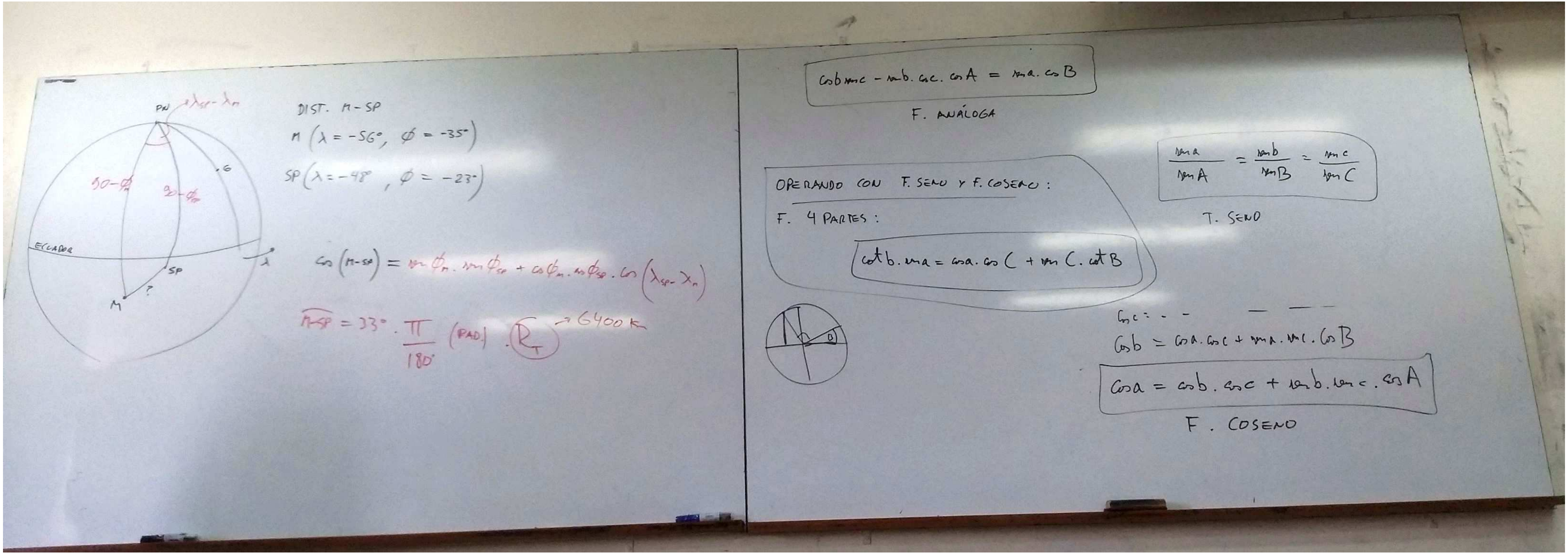
Astronomia Fundamental 2018 - clase 2



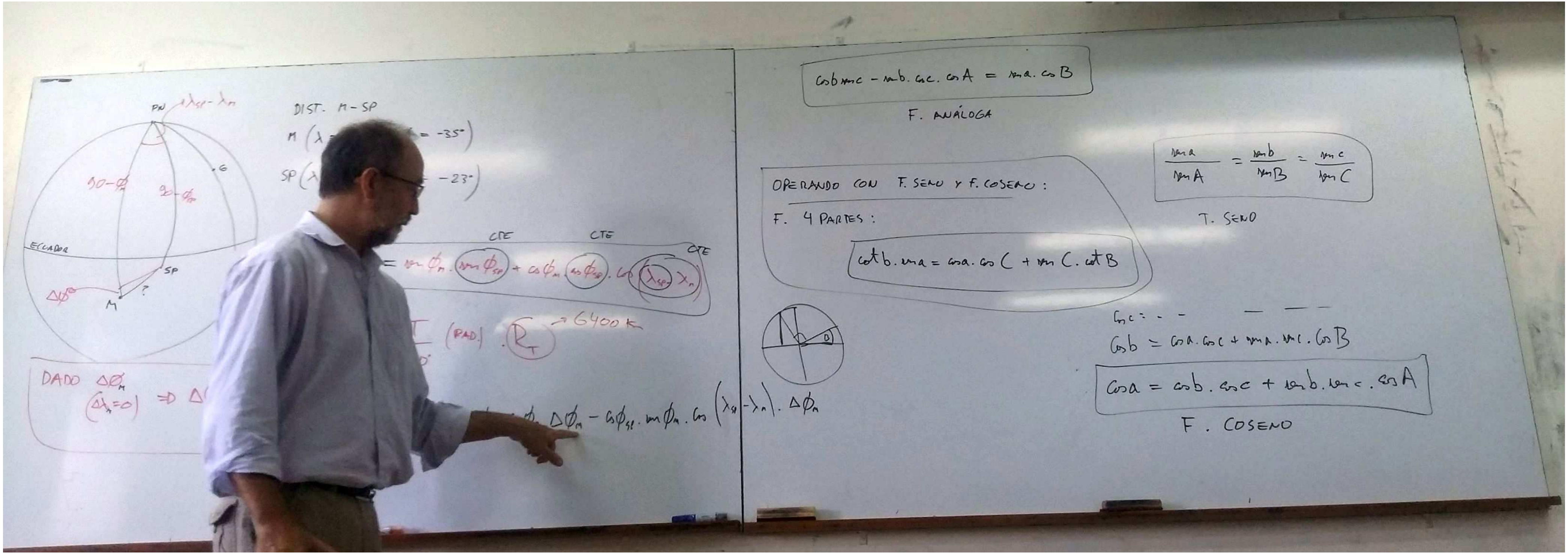
Astronomia Fundamental 2018 - clase 2



Astronomia Fundamental 2018 - clase 2



Astronomia Fundamental 2018 - clase 2



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