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MATRIC NUMBER: 19/MHS01/063

DEPARTMENT: Pre-medicine and Surgery

COLLEGE: Medicine and Health Sciences

LEVEL: 100

ASSIGNMENT



Compare with y = m1 + c

m1= 3

Compare with y = m₁ + c

m₂= -⅓

For perpendicular lines; m₁.m₂= -1

So,

Therefore; the equations y - 3x -2 = 0 and 3y + x + 9 = 0 are perpendicular to each other.



Compare with y = m₁ + c

Compare with y = m₂ + c

m₂= 1

For perpendicular lines; m₁.m₂ = -1

So,

Therefore, the equation and are not perpendicular because their gradient product is not equal to -1.

The equation of the tangent of is .

m₁.m₂=-1

The equation of the normal is .