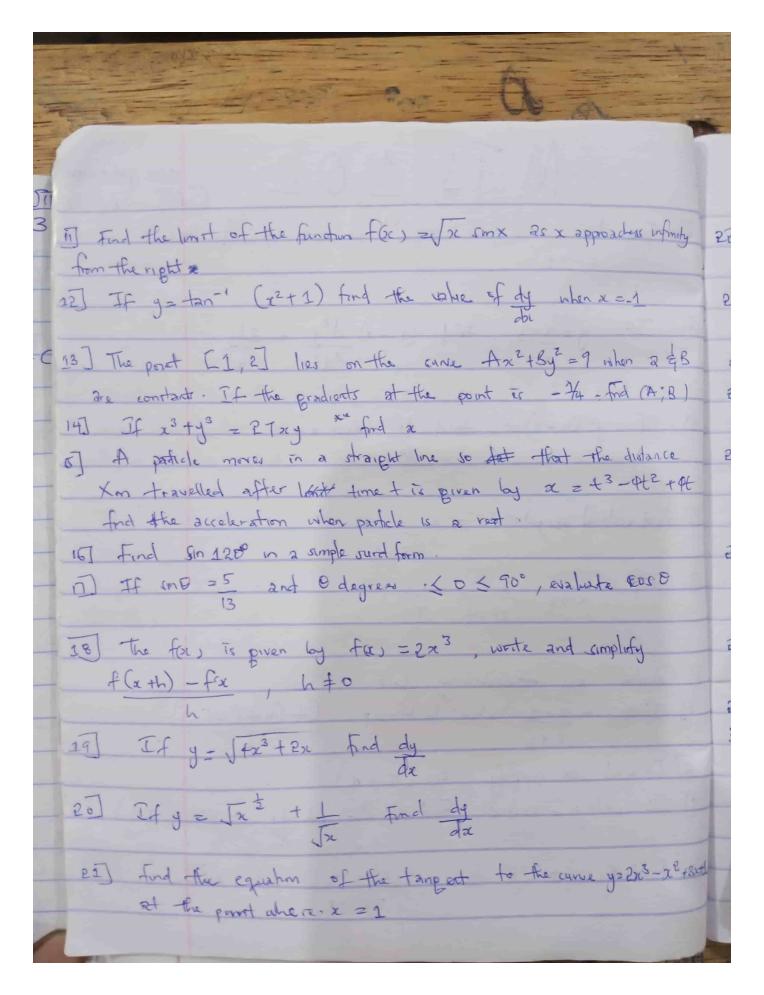
MTS 102 CAT . Agbools I Find I'm (sinx + cos ex) in 4 formal Place. y = x+1, y = x+13] If y2 (x+3)20 Find dy when x=2 El Find vertical assymtates x = 8 \overline{J} Find \overline{J} $\overline{X} \rightarrow 2$ $\overline{Z} \rightarrow 4$ $\overline{Z} \rightarrow 2$ 6] Calculus was established by who? F) If foc) = $\frac{x-1}{x+1}$ when $lm k \rightarrow 0$ (f(x+t) - f(x))B Expand & simplify sin (T+d) I If sinhy = coshx, Find the value of fy at point (10) 10) Find the limit of fe) = 322-2x+1 2 appears 1



22) Find theogradient of the tangent to the curve, 92 222+52-3 at the point where x = 2. 23) Find day in terms of & when y = 201 = 02 eff Express 2-3 rad in degrees and min 25) Given that $y = x^4 - 3x^3 - 4x^2 + 5$ find by 26) Find the value of k if of function (x) = x2+x-6 is x2 +6x-3 not continuous at x = 3 27) let R be the set of real nos, define the finchion fix > R by for = oc= 1 what is altern image of smoc-core under 28] If y = Sina, find dty 29] Expand and simplify - cos (90+B) 30] Domain of f; if f(x) = \((x-3)(x+2) Equation of normal to the curve x2+xy+y2=3 point (2,1) 31 71