X4. You go to see the doctor about an ingrowing too mail. Dhe doctor selects you at random to have a blood test for swine blu, which for the purpose of the excessive we will say is currentry suspected to affect 1 in 10,000 people in Australia. The lost is 99% accupate, in the sense that the prob. of a false positive is 1%. The prob. of a false negative is Zexo. What is me new prob. That you have swine fler? 1 Positive SF Swinefly O Negative | SF (False Negative) Positive NSF (False Positive) 0.99 No Swine Fin Negative NSF P(SF/Positive) = P (Positive) P(Positive SF) XP(SF) P(Positive |SF) XP(SF) +P(Positive |NSF)XP(NSF) X 0.0001 $\frac{a}{(1 \times 0.0001)} + (0.01 \times 0.00000)$ Scanned with CamScanner