Bayes Theorem

Mach1: 30 wrenches / hr
Mach2: 20 wrenches / hr
Out of all produced parts:
We can SEE that 1% are defective
Out of all defective parts:
We can SEE that 50% came from mach1
And 50% came from mach2
Question:
What is the probability that a part

produced by mach2 is defective = ?

- -> P(Mach2) = 20/50 = 0.4
- -> P(Defect) = 1%
- -> P(Mach2 | Defect) = 50%
- -> P(Defect | Mach2) = ?