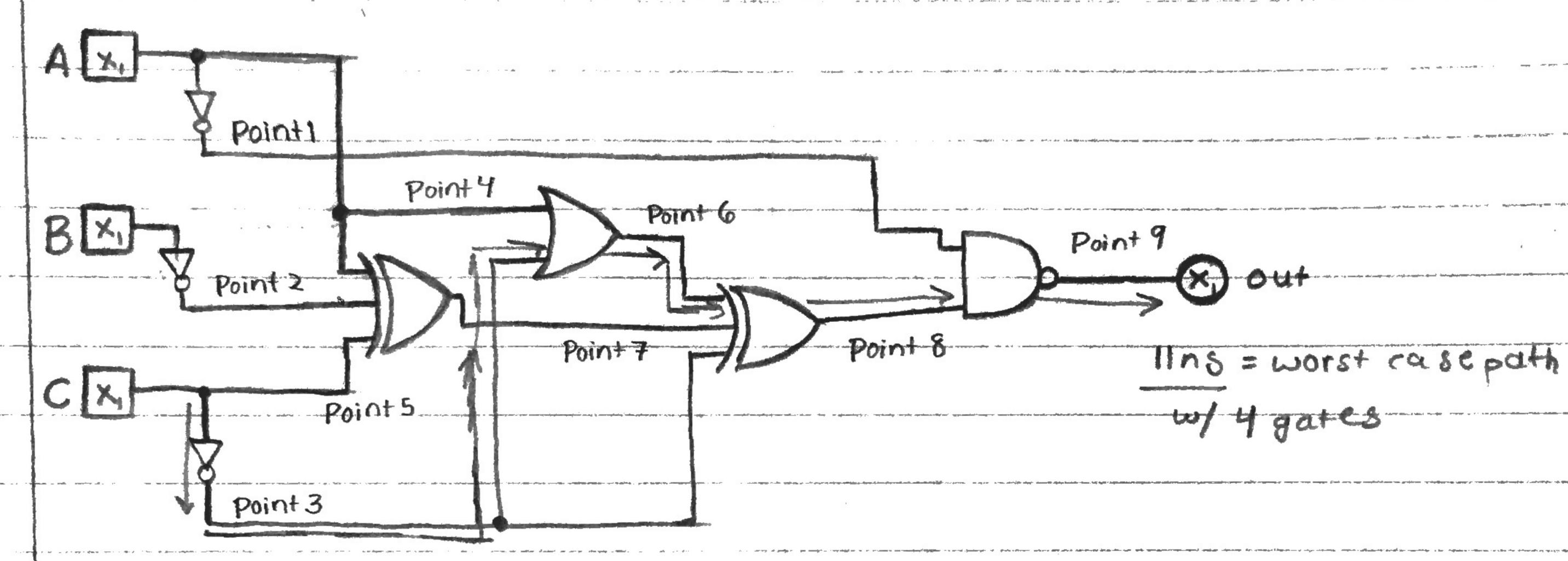
4.) What are the propagation delays at ea marked point?

NOT	15
OR	55
XOR	35
NAND	2s

- @ Point 1 = 1ns @ Point 6 = 5ns
- @ Point 2 = Ins @ Point 7 = 4ns
- @ Point 3 = 1ns @ Point 8 = 9ns
- @ Point 9 = 11ns @ Point 4= Ons
  - @ Point 5 = Ons



5.) Given that ca. XOR gate has delay of Ans, ea. AND has delay of Bns, ea. OR gate has delay of Cns, what is propagation delay of worst case path in an N bit ripple carry adder ?

	XOR	Ans	The same of the sa
- 1			1-bit full adder =
	OR		

- \* this is worst case path through a Full adder using ripple carry which goes through 3 gates to autput.
- \* Since an N-bit ripple carry adder is made up of (N) full adders, the worst case path propagation delay is: N(tpd)