

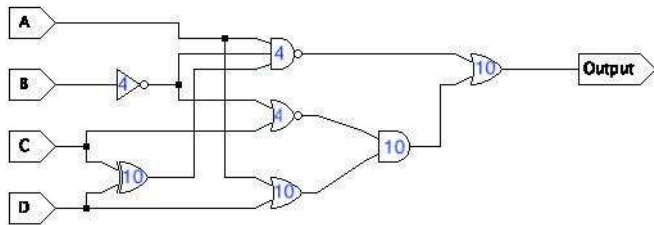
Name: _____

CIS 351 Sample CL4 Problem

1 September 2025

CL4: Propagation Delay

Compute the propagation delay of the circuit below given the individual gate delays:



Circuit: $\overline{AB(C \oplus D)} + \overline{(\overline{B} + C)}(A + D)$

Delay 4: NAND, NOT, NOR

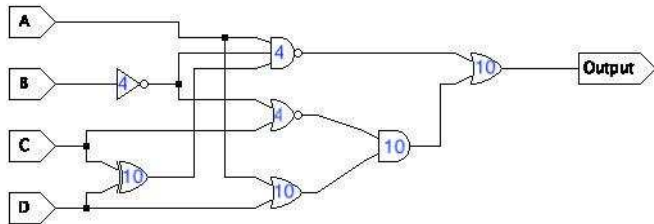
Delay 10: AND, OR, XOR

CIS 351 Sample CL4 Problem Solutions

Fri 13th Feb, 2026

CL4: Propagation Delay

Compute the propagation delay of the circuit below given the individual gate delays:



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Circuit: $\overline{AB(C \oplus D)} + \overline{(\overline{B} + C)(A + D)}$

Delay 4: NAND, NOT, NOR

Delay 10: AND, OR, XOR