

local

$e_1 \in M$
 $\downarrow \text{prop deps}$
 $e_2 \in M$

OR

$e_1 \in M$
 $\downarrow \text{fines}$
 $e_2 \in M$

non-transitive

1)

$e_1 \in M$
 $\downarrow \text{local}$
 $e_2 \in M$

non-transitive

2)

$w \xrightarrow{\text{fe}} n$
 $\downarrow \text{local}$
 $e \in M$

non-transitive.