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Question one

Claim:
$$(A \rightarrow B) \lor C \equiv (A \rightarrow C) \lor B$$

$$(A o B) \lor C \equiv (\neg A \lor B) \lor C ext{ (impl.)}$$

$$\equiv (\neg A \lor C) \lor B ext{ (\lor associativity)}$$

$$\equiv (A \to C) \lor B ext{ (impl.)}$$