1. Which of the following is a tautology according to the Rule of Inference known as Disjunctive Amplification (or Addition)?
   (3 points)

   A. $p \rightarrow p \wedge q$

   ✓ B. $p \rightarrow p \vee q$

   C. $p \rightarrow p \wedge \neg q$

   D. $p \rightarrow p \vee p$

2. Which of the following is equivalent to the tautology $p \wedge q \rightarrow r$? *(3 points)*

A. $p \wedge q \wedge r \rightarrow F_0$

B. $p \vee q \vee \neg r \rightarrow F_0$

✓ C. $p \wedge q \wedge \neg r \rightarrow F_0$

D. $p \vee q \wedge \neg r \rightarrow F_0$

3. What conclusion can be reached from the following argument?

$p \rightarrow q$
$q \rightarrow t$
$\neg t$

(3 points)

✓ A. $\neg p$

  B. p

  C. $\neg q$

  D. $p \wedge \neg t$