3.

Sufficiency HOLDS but NOT Separation

A = Gender

Y = Diabetes

C = hyperlipidemia

A = gender is independent of Y = diabetes given C = hyperlipidemia (HOLDS)

A = gender is independent of Y = hyperlipidemia given C = diabetes (DOES NOT HOLD)

Separation HOLDS but NOT Sufficiency

A = Gender

Y = hyperlipidemia

C = Diabetes

A = gender is independent of Y = diabetes given C = hyperlipidemia (HOLDS)

A = gender is independent of Y = hyperlipidemia given C = diabetes (DOES NOT HOLD)