Q1. Let $f(x) = ax^3 + 5x^2 - bx + 1$. If $f(x)$ when divided by $2x+1$ leaves 5 as remainder, and $f'(x)$ is divisible by $3x-1$, then

(a) $a = 26, \quad b = 10$

(b) $a = 24, \quad b = 12$

(c) $a = 26, \quad b = 12$

(d) $a = 12, \quad b = 24$