Worksheet #4

Perform the indicated integrations.

(1) $\int \dfrac{3}{x^2 - 1}\,dx$

(2) $\int \dfrac{2x^2 - x - 20}{x^2 + x - 6}\,dx$

(3) $\int \dfrac{x + 1}{(x - 3)^2}\,dx$

(4) $\int \dfrac{-4x^2 + 6x - 39}{(2x - 1)(x^2 + 9)}\,dx$