

3. Legendre Equation

The correct form is ∇ (6), (c) and (6)(d)

$$6. (c) \quad (n+1)P_n = P_{n+1}'(x) - P_{n-1}'(x)$$

$$(d) \quad \cancel{P_{n+1}} P_{n+1}'(x) = x P_n'(x) + (n+1)P_n(x)$$