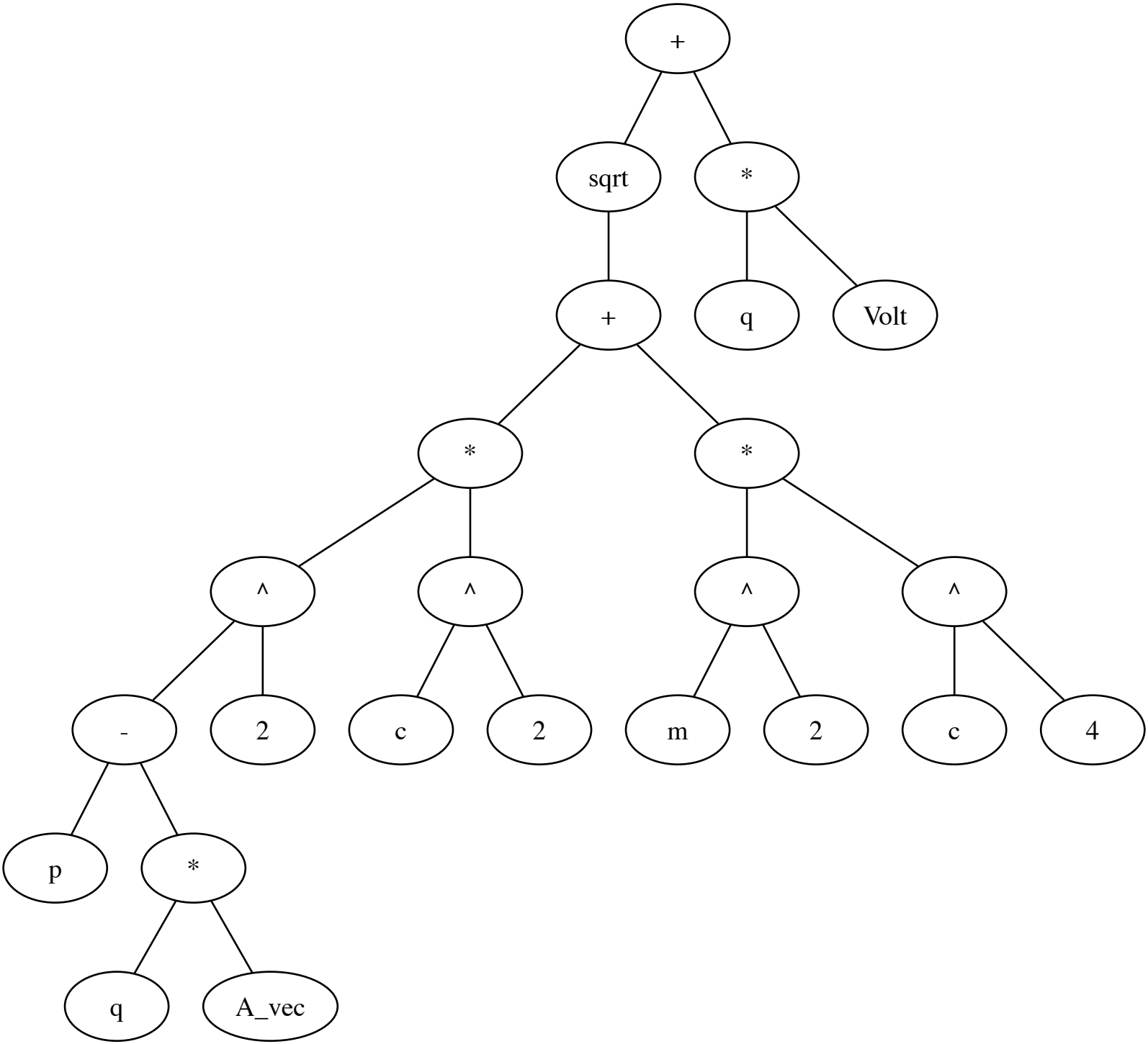sqrt((p-q*A_vec)**2*c**2+m**2*c**4)+q*Volt, depth = 7