1. If \( f(x) = e^x g(x) \), where \( g(0) = 2 \) and \( g'(0) = 5 \), find \( f'(0) \).

2. Let \( P(x) = F(x)G(x) \) and \( Q(x) = F(x)/G(x) \) where \( F \) and \( G \) are functions whose graphs are shown below.

Find

(a) \( P'(2) \)

(b) \( Q'(7) \)