$$V_{GS} = V_G - V_S = V_G - I R_S = V_G - g_m V_{GS} R_S$$

$$\Rightarrow V_G = g_m V_{GS} R_S + V_{GS} \Rightarrow V_{GS}(1 + R_S g_m)$$

$$V_{GS} = \frac{V_G}{1 + g_m R_S}$$

$$V_{out} = -g_m \cdot \frac{V_G}{1 + g_m R_S} R_L \Rightarrow V_{out} = \frac{-g_m R_L}{1 + g_m R_S} \cdot V_G$$

$$V_G = V_{in}\left(1 + \frac{R_2}{R_1}\right) = 1 + \frac{10}{2} = 6\, V_{in}$$

$$\Rightarrow V_{out} = \frac{-g_m R_L}{1 + g_m R_S} \cdot 6\, V_{in}$$

$$\boxed{A = \frac{-g_m R_L}{1 + g_m R_S} \cdot 6}$$

$$\frac{-2 \cdot 15}{1 + 2 \cdot 1} \cdot 6$$

$$= \frac{-30}{3} \cdot 6 = \boxed{-60}$$