

Solution to 6.1

Answer to B)

$$\frac{VL}{Ia} = \frac{L s (R_1 + R_2)}{(L R_1 C + L R_2 C) s^2 + R_1 R_2 C s + R_1 + R_2}$$

Answer to C)

$$\frac{IL}{Ia} = \frac{R_1 + R_2}{(L R_1 C + L R_2 C) s^2 + R_1 R_2 C s + R_1 + R_2}$$

Answer to C)

$$\frac{VI}{Ia} = \frac{(L R_2 + L R_1) s + R_1 R_2}{(L R_1 C + L R_2 C) s^2 + R_1 R_2 C s + R_1 + R_2}$$