From (1) (2) (3)

$$V(+) = IR + j x_L I - j x_C I$$

$$IZ = IR + jX_LI - jX_cI$$

$$Z = R + j x_L - j x_c$$

$$|Z| = \sqrt{R^2 + (X_L - X_c)^2}$$

$$|z| = \sqrt{a^2 + b^2}$$