$$\frac{x_0 * P_{high} - y_0}{\frac{y_0}{P_{low}} - x_0} \quad \Leftrightarrow$$

$$\frac{x_0 * P_{high} - y_0}{\frac{y_0 - x_0 * P_{low}}{P_{low}}} \quad \Leftrightarrow$$

$$P_{low} * \left(\frac{x_0 * P_{high} - y_0}{y_0 - x_0 * P_{low}} \right) \quad \Leftrightarrow$$

$$P_{low} * \left(- \frac{x_0 * P_{high} - y_0}{x_0 * P_{low} - y_0} \right) \quad \Leftrightarrow$$

$$P_{low} * \left(- \frac{\cancel{x_0} * \left(\frac{A^2}{(A-1)^2} \right) * \frac{\cancel{y_0}}{\cancel{x_0}} - \cancel{y_0}}{\cancel{x_0} * \left(\frac{(A-1)^2}{A^2} \right) * \frac{\cancel{y_0}}{\cancel{x_0}} - \cancel{y_0}} \right) \quad \Leftrightarrow \qquad (43, 47)$$

$$P_{low} * \left(- \frac{\left(\frac{A^2}{(A-1)^2} \right) - 1}{\left(\frac{(A-1)^2}{A^2} \right) - 1} \right) \quad \Leftrightarrow$$

$$P_{low} * \left(- \frac{[A^2 - (A-1)^2] * A^2}{[(A-1)^2 - A^2] * (A-1)^2} \right) \quad \Leftrightarrow$$

$$P_{low} * \left(\frac{\cancel{[A^2 - (A-1)^2]}}{\cancel{[A^2 - (A-1)^2]}} * \frac{A^2}{(A-1)^2} \right) \quad \Leftrightarrow$$

$$P_{low} * \frac{A^2}{(A-1)^2} \quad \Leftrightarrow$$

$$P_{low} * \frac{P_0}{P_{low}} \quad \Leftrightarrow \qquad (61)$$

$$P_0 \quad \text{Q.E.D}$$

from (41)

$$P_{high} = \frac{A^2}{(A-1)^2} \cdot \frac{y_0}{x_0}; \quad \sqrt{P_{high}} = \frac{A}{A-1} \cdot \frac{\sqrt{y_0}}{\sqrt{x_0}} \qquad (43)$$

from (42)

$$P_{low} = \frac{(A-1)^2}{A^2} \cdot \frac{y_0}{x_0}; \quad \sqrt{P_{low}} = \frac{A-1}{A} \cdot \frac{\sqrt{y_0}}{\sqrt{x_0}} \qquad (47)$$

from (45) (47)

$$\frac{P_0}{P_{low}} = \frac{\dfrac{y_0}{x_0}}{\dfrac{(A-1)^2}{A^2} \cdot \dfrac{y_0}{x_0}} = \frac{A^2}{(A-1)^2} = C \qquad (61)$$