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From Table D/3:
$$\frac{y}{1-x-1} = (\frac{\pi}{16} - \frac{4}{9\pi}) a^{4}$$

$$\frac{1}{x} = \frac{4a}{3\pi}$$

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$$\frac{1}{x} = \frac{\pi}{16} - \frac{4}{9\pi} a^{4} + \frac{\pi}{16} \left[\frac{a}{2} + \left(a - \frac{4a}{3\pi}\right)\right]^{2}$$

$$= \left[\frac{5\pi}{8} - 1\right] a^{4}$$

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