

$$a^2 - a^{\frac{3}{2}}x^{\frac{1}{2}} - 2a^{\frac{1}{2}}x^{\frac{1}{4}} + 2x^{\frac{3}{4}} = a^{\frac{3}{2}}(a^{\frac{1}{2}} - x^{\frac{1}{2}}) - 2x^{\frac{1}{4}}(a^{\frac{1}{2}} - x^{\frac{1}{2}}) = (a^{\frac{1}{2}} - x^{\frac{1}{2}})(a^{\frac{3}{2}} - 2x^{\frac{1}{4}}),$$

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$$(a^2 - a^{\frac{3}{2}}x^{\frac{1}{2}} - 2a^{\frac{1}{2}}x^{\frac{1}{4}} + 2x^{\frac{3}{4}}) : (a^{\frac{1}{2}} - x^{\frac{1}{2}}) = a^{\frac{3}{2}} - 2x^{\frac{1}{4}} = a\sqrt{a} - 2\sqrt[4]{x}.$$

(Schudich Lajos, Eperjes.)