

\sqrt{s} x_0 : initial guess

$$x_1 = (x_0 + s / x_0) / 2$$

$$s = 50 \quad x_0 = 5$$

$$x_1 = (5 + 50 / 5) / 2$$

$$x_1 = 7.5$$

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$$x_1 = (7.5 + 50 / 7.5) / 2$$

$$x_1 = 7.083$$

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$$x_1 = (7.083 + 50 / 7.083) / 2$$

$$x_1 = 7.071$$