

$f\left(\sin \frac{\pi}{2} + i \cos \frac{\pi}{2}\right)$ $f(e^{i\frac{\pi}{2}}) = f(i) = \frac{1+i}{1-i} = \frac{(1+i)^2}{1-i^2} = \frac{1+i+2i-1}{1+1} = \frac{2i}{2} = i$	۶
$f(a) = \frac{1+\sqrt{a}}{1-\sqrt{a}} \cdot \frac{1+\sqrt{a}}{1+\sqrt{a}} = \frac{(1+\sqrt{a})^2}{1-a}$ $f(a) = \frac{1+\sqrt{a}}{1-\sqrt{a}} \cdot \frac{1+\sqrt{a}}{1+\sqrt{a}} = \frac{(1+\sqrt{a})^2}{1-a}$	۷
$f(a) = \frac{1+\sqrt{a}}{1-\sqrt{a}} \cdot \frac{1+\sqrt{a}}{1+\sqrt{a}} = \frac{(1+\sqrt{a})^2}{1-a}$ $\sqrt{a^2-1} = a \rightarrow a^2-1=a^2 \rightarrow -1=0$	۸
$f(e) = \frac{1+\sqrt{e}}{1-\sqrt{e}}$ $f(-e) = \frac{1+\sqrt{-e}}{1-\sqrt{-e}}$ $f(e) \cdot f(-e) = \frac{(1+\sqrt{e})(1+\sqrt{-e})}{(1-\sqrt{e})(1-\sqrt{-e})}$	۹
$f(a) = \frac{1+\sqrt{a}}{1-\sqrt{a}}$ $f(a) = \frac{1+\sqrt{a}}{1-\sqrt{a}} \cdot \frac{1+\sqrt{a}}{1+\sqrt{a}} = \frac{(1+\sqrt{a})^2}{1-a}$ $f(a) = \frac{1+\sqrt{a}}{1-\sqrt{a}} \cdot \frac{1+\sqrt{a}}{1+\sqrt{a}} = \frac{(1+\sqrt{a})^2}{1-a}$	۱۰

$f(x) = \frac{1+\sqrt{x}}{1-\sqrt{x}}$ $f(x) = \frac{1+\sqrt{x}}{1-\sqrt{x}} \cdot \frac{1+\sqrt{x}}{1+\sqrt{x}} = \frac{(1+\sqrt{x})^2}{1-x}$	۱
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