

Subject:

Date:

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$$\sqrt{a} = \sqrt[2]{a} = \sqrt[2]{a^{\frac{10}{10}}} \Rightarrow a^{\frac{1}{2}} = \sqrt[2]{a^{\frac{10}{10}}} \Rightarrow \frac{a^{\frac{1}{2}}}{a^{\frac{10}{10}}} = 1 \Rightarrow a^{-\frac{1}{2}} = \frac{1}{a^{\frac{1}{2}}} \Rightarrow \sqrt[2]{a} = \frac{1}{a^{-\frac{1}{2}}}$$

$$a = \frac{1}{\sqrt[2]{a}} \Rightarrow a = \frac{1}{\sqrt[2]{a}} \Rightarrow a = \frac{1}{\sqrt[2]{a}} \quad \left(\frac{1}{a^{-\frac{1}{2}}} \right) = a^{\frac{1}{2}} = \sqrt[2]{a} = \sqrt[2]{a}$$

$$\frac{3(\sqrt{3}-1) \times \frac{1}{1+\sqrt{3}}}{(1+\sqrt{3})} = \frac{3(\sqrt{3}-1)}{(1+\sqrt{3})} \times \frac{(1-\sqrt{3})}{(1-\sqrt{3})} = \frac{4\sqrt{3}-12}{1-3} = \frac{4(\sqrt{3}-3)}{-2} = -2(\sqrt{3}-3) = 6-2\sqrt{3}$$

$$-2(\sqrt{3}-3) = 6-2\sqrt{3}$$

$$\sqrt{a+b} = a \quad \sqrt{a-b} = b$$

$$a-b = 2$$

$$a = b+2$$

$$a+b = 2 \Rightarrow (b+2)+b = 2 \Rightarrow 2b+2 = 2 \Rightarrow 2b = 0 \Rightarrow b = 0$$

$$a+b = 2 \Rightarrow 2 = 2$$

$$\sqrt{a+b} + \sqrt{a-b} = 2 \Rightarrow \sqrt{a+b} = 2 - \sqrt{a-b}$$

