Example 4

$$\sqrt{x+2} + \sqrt{3x+7} = 1$$

$$-(3x+7)^{2} - (3x+7)^{2}$$

$$(\sqrt{x+2})^{2} = (1 - (3x+7)^{2})$$

$$x+2 = (1 - (3x+7)(1 - \sqrt{3x+7})$$

$$x+2 = 1 - \sqrt{3x+7} - \sqrt{3x+7} + 3x+7$$

$$x+2 = 3x - 2\sqrt{3x+7} + 8$$

$$-3x-8 - 3x$$

$$-2x-6=-2\sqrt{3x+7}$$

 $-2 - 2 - 2$
 $(2+3)=(\sqrt{3}x+7)^{2}$

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Jessica J Manson

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