

# Problem of the Week-4

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Find all real solutions to the equation

$$\ln^2(x) - 2.5 \cdot \ln(x) \cdot \ln(4x - 5) + \ln^2(4x - 5) = 0$$

Explain your answer and show all the steps. <sup>1</sup>

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<sup>1</sup>Posting Date 2/20/08. Submit solutions to Noah Aydin, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on 2/29/08.