5 **(a)** Write $5\lg a - 4\lg b - 3$ as a single base 10 logarithm. [3]

(b) Solve the equation $\log_5(x+1) - \log_{(x+1)} 5 = 0$. [4]

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6 Solve the equation $|2x^2 + x - 10| = 5$. [5]

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