<u>Poisson distribution – A2 Further Mathematics Statistics</u>

Daisies and dandelions are the only flowers growing in a field.
The number of daisies per square metre in the field has a mean of 16
The number of dandelions per square metre in the field has a mean of 10
The number of daisies per square metre and the number of dandelions per square metre are independent.
Using a Poisson model, find the probability that a randomly selected square metre from the field has a total of at least 30 flowers, giving your answer to three decimal places.
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A survey of the entire field is taken.
A survey of the entire field is taken. The standard deviation of the total number of flowers per square metre is 10