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Opgave Sys 612

$$f'(x) = \ln(x)$$

Find stamfunktion

$$F(x) = \int \ln(x)\ dx$$
$$F(x) = \ln(x) \cdot x - x + K$$

Find funktion der går gennem punkt P

$$P(1;1)$$

$$F(1) = 1$$
$$\ln(1) \cdot 1 - 1 + K = 1$$
$$K = 1 - \ln(1) \cdot 1 + 1$$
$$K = 2$$

$$F(x) = \ln(x) \cdot x - x + 2$$

Cas

$$F(x) = \int \ln(x)\ dx$$
$$Define: F(x) = \ln(x) \cdot x - x + K$$

$$P(1;1)$$

$$F(1) = 1$$

⇳ *The equation is solved for K by WordMat.*

$$K = 2$$