Calculus 3 Workbook

Implicit differentiation

krista king
MATH

IMPLICIT DIFFERENTIATION

■ 1. Use implicit differentiation to find the partial derivative dy/dx.

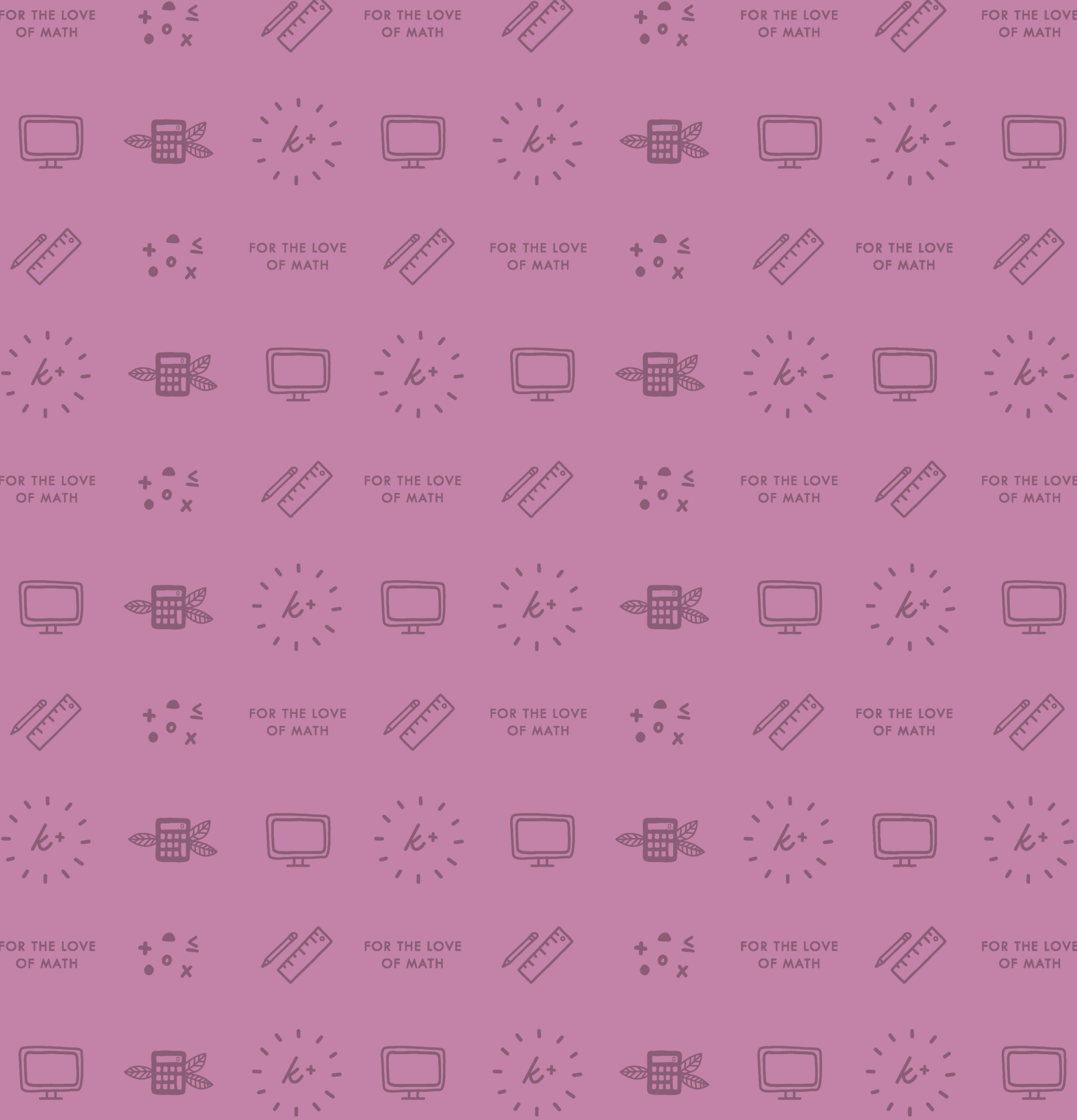
$$\sin(x + y) = x + y$$

■ 2. Use implicit differentiation to find the partial derivative $\partial z/\partial x$ of the multivariable function.

$$y \ln z = 2x - 3y + 2z$$

■ 3. Use implicit differentiation to find the partial derivative $\partial z/\partial y$ of the multivariable function.

$$e^z = x^2 + y + z$$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