

## Opgave 9.2.23

Find all second-order partial derivatives for the following.

$$f(x, y) = 4x^2y^2 - 16x^2 + 4y$$

— s. 530

Find  $f_x$

$$f_x(x, y) = 8y^2x - 32x$$

Find  $f_y$

$$f_y(x, y) = 8x^2y + 4$$

Find  $f_{xx}$

$$f_{xx} = 8y^2 - 32$$

Find  $f_{yy}$

$$f_{yy} = 8x^2$$

Find  $f_{xy}$

$$f_{xy} = f_{yx} = 16xy$$