

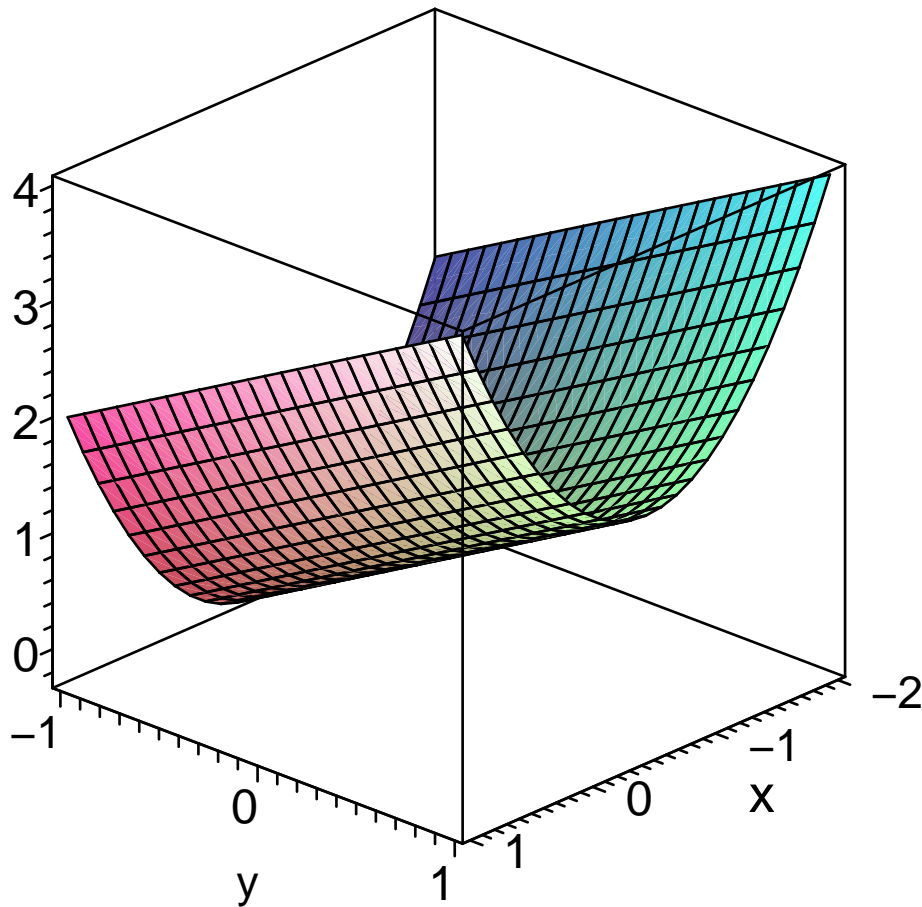
> $f := (x, y) \rightarrow 1 + x + y + x^2$
 $f := (x, y) \rightarrow 1 + x + y + x^2$ (1)

> $fx := \text{unapply}(\text{diff}(f(x, y), x), (x, y))$
 $fx := (x, y) \rightarrow 1 + 2x$ (2)

> $fy := \text{unapply}(\text{diff}(f(x, y), y), (x, y))$
 $fy := (x, y) \rightarrow 1$ (3)

> `with(plots):`
 Warning, the name `changecoords` has been redefined

> `plot3d(f(x, y), x = -2..1, y = -1..1, axes = boxed)`



> $A := \text{int}(\text{int}(\text{sqrt}(1 + fx(x, y)^2 + fy(x, y)^2), x = -2..1), y = -1..1)$
 $A := 3\sqrt{11} - \ln(-3\sqrt{2} + \sqrt{2}\sqrt{11}) + \ln(3\sqrt{2} + \sqrt{2}\sqrt{11})$ (4)

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