\[ \text{restart}: \text{with}(\text{student}); \]

\[ \text{D, Diff, Doubleint, Int, Limit, Lineint, Product, Sum, Tripleint, changevar, completesquare,} \]
\[ \text{distance, equate, integrand, intercept, intparts, leftbox, leftsum, makeproc, middlebox, middlesum,} \]
\[ \text{midpoint, powsubs, rightbox, rightsum, showtangent, simpson, slope, summand, trapezoid} \]

\[ \text{limit}\left(\frac{\sin(x^2) - \sin(y^2)}{x^2 - y^2}, \{x=0, y=0}\right) \]

\[ y := m \times x; \]

\[ \text{limit}\left(\frac{\sin(x^2) - \sin(y^2)}{x^2 - y^2}, x=0\right); \]

\[ 1 \]

\[ \text{restart}: \text{with}(\text{student}); \text{with(\text{Student[VectorCalculus]})):with(\text{plots});} \]

\[ \text{Warning, the assigned names <,> and <|> now have a global binding} \]

\[ \text{Warning, these protected names have been redefined and unprotected: *, +, -, ., D,} \]
\[ \text{Vector, diff, int, limit, series} \]

\[ \text{Warning, the name changecoords has been redefined} \]

\[ -1 \]

\[ y := m \times x; \]

\[ \text{plot3d}\left(\frac{\sin(x^2) - \sin(y^2)}{x^2 - y^2}, x = -1..1, y=-1..1, \text{color=red,axes=boxed}\right); \]

\[ \text{SpaceCurve}( <0,0,t>, t=-1..1, \text{color=green,axes=boxed})\text{:SpaceCurve}( <0,t,1>, t=-1..1, \text{color=blue,axes=boxed})\text{:display3d}(s1,s2,s3); \]
\[ y := m \times x; \]
\[ \text{limit}((\sin(x)-\sin(y))/(x-y), x=0); \]
\[ 1 \]
\[ \text{limit}((\sin(x)+\sin(y))/(x+y), x=0); \]
\[ 1 \]
\[ \text{restart:} \text{with( student); with(Student[VectorCalculus])}: \text{with( plots):} \text{s1:=plot3d((\sin(x)-\sin(y))/(x-y), x = -1..1,y=-1 .. 1, color=red,axes=boxed):} \]
\[ \text{s2:=SpaceCurve( <0,0,t>, t=-1..1,color=green,axes=boxed )}: \text{s3:=SpaceCurve( <0,t,1>, t=-1..1,color= blue,axes=boxed )}: \]
\[ \text{display3d(s1,s2,s3)}; \]

[D, Diff, Doubleint, Int, Limit, Lineint, Product, Sum, Tripleint, changevar, completesquare, distance, equate, integrand, intercept, intparts, leftbox, leftsum, makeproc, middlebox, middlesum, midpoint, powsubs, rightbox, rightsum, showtangent, simpson, slope, summand, trapezoid]

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