

## Gradient Function

1.  $\vec{\nabla}(f + g) = \vec{\nabla}f + \vec{\nabla}g$
2.  $\vec{\nabla}(cf) = c\vec{\nabla}f$ , for any constant  $c$
3.  $\vec{\nabla}(fg) = f\vec{\nabla}g + g\vec{\nabla}f$
4.  $\vec{\nabla}(f/g) = (g\vec{\nabla}f - f\vec{\nabla}g)/g^2$  at points  $\vec{x}$  where  $g(\vec{x}) \neq 0$ .
5.  $\vec{\nabla}(\vec{F} \cdot \vec{G}) = \vec{F} \times (\vec{\nabla} \times \vec{G}) - (\vec{\nabla} \times \vec{F}) \times \vec{G} + (\vec{G} \cdot \vec{\nabla})\vec{F} + (\vec{F} \cdot \vec{\nabla})\vec{G}$

## Divergence Function

6.  $\vec{\nabla} \cdot (\vec{F} + \vec{G}) = \vec{\nabla} \cdot \vec{F} + \vec{\nabla} \cdot \vec{G}$
7.  $\vec{\nabla} \cdot (c\vec{F}) = c\vec{\nabla} \cdot \vec{F}$ , for any constant  $c$
8.  $\vec{\nabla} \cdot (f\vec{F}) = f\vec{\nabla} \cdot \vec{F} + \vec{F} \cdot \vec{\nabla}f$
9.  $\vec{\nabla} \cdot (\vec{F} \times \vec{G}) = \vec{G} \cdot (\vec{\nabla} \times \vec{F}) - \vec{F} \cdot (\vec{\nabla} \times \vec{G})$

# Part Ia Vector Calculus

**RS Peters**



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