

The set of all real numbers,  $\mathbb{R}$ , is a typical example of a **field**.

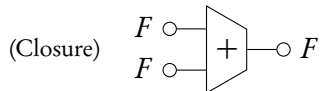
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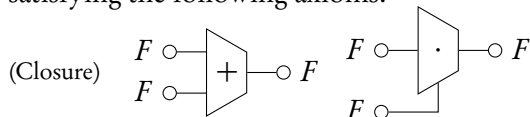
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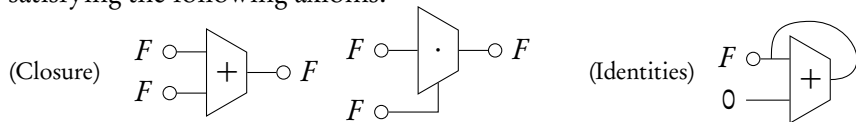
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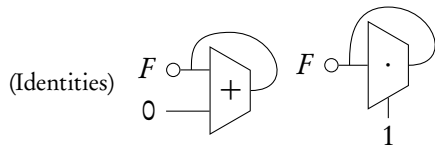
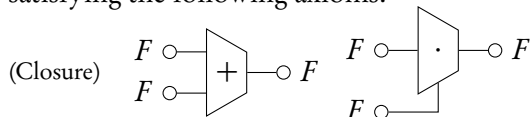
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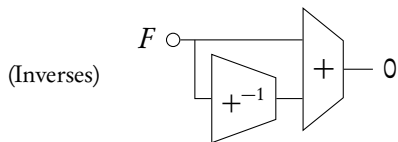
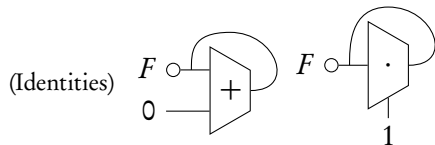
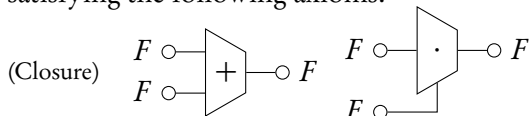
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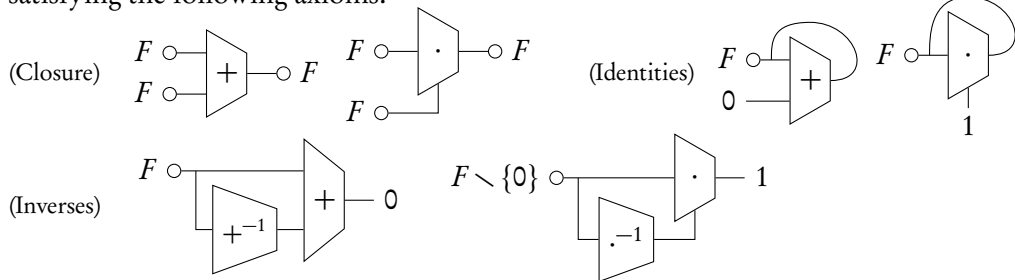
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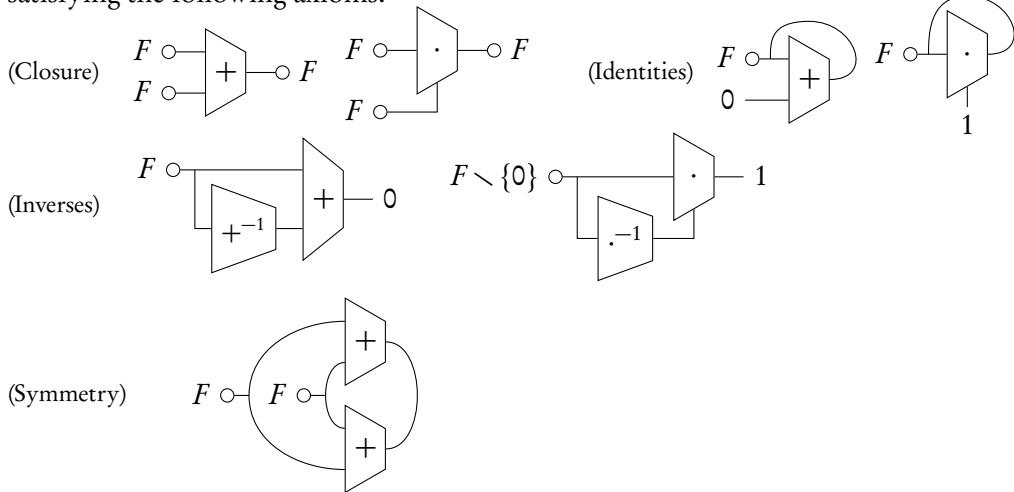
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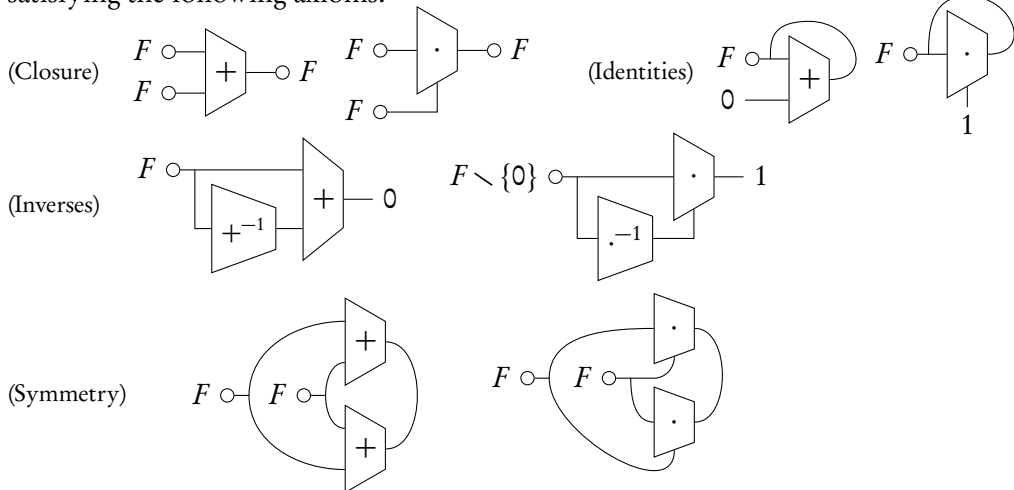
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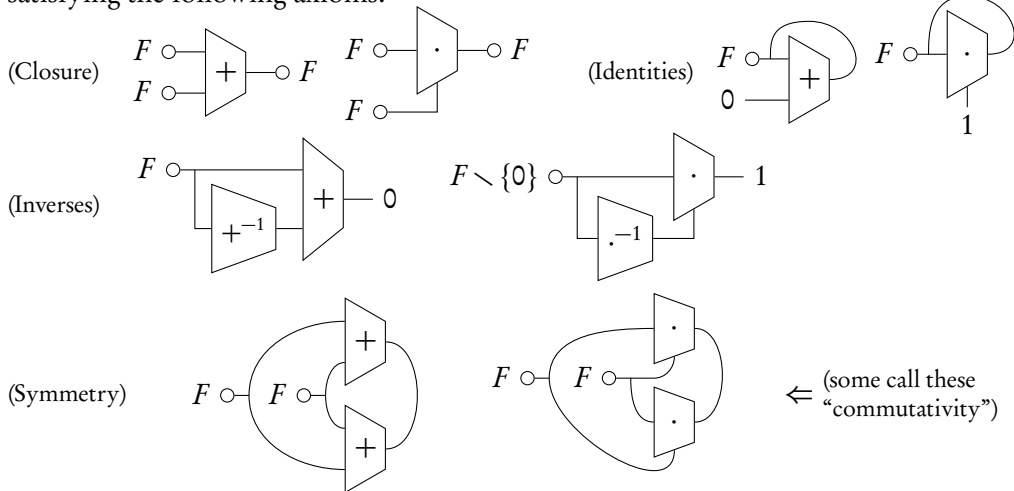
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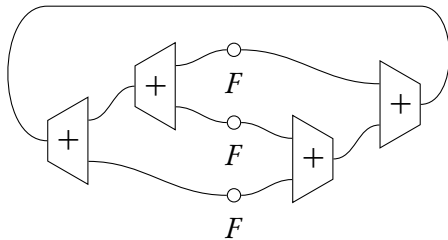


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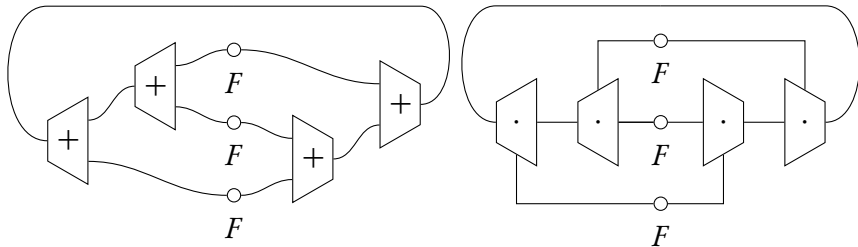
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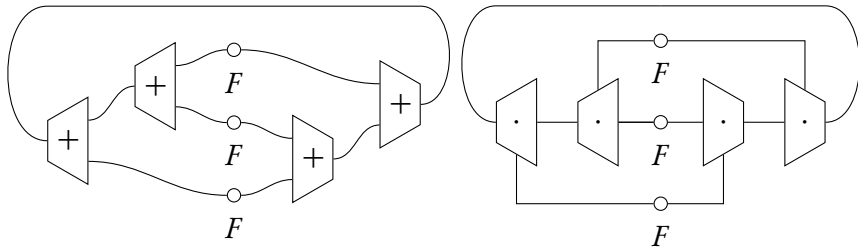
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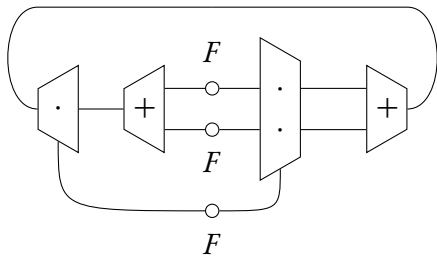
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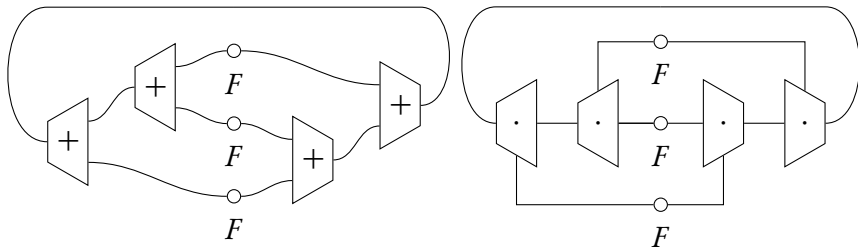
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("Distributivity")

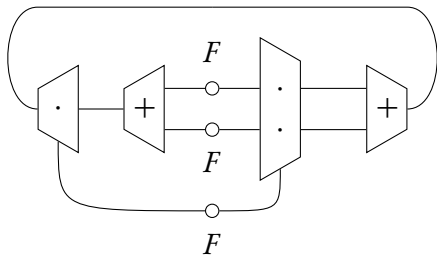


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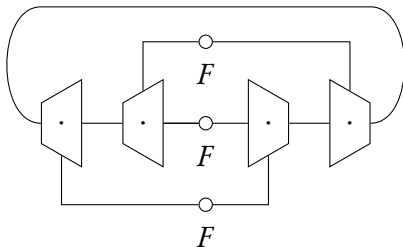
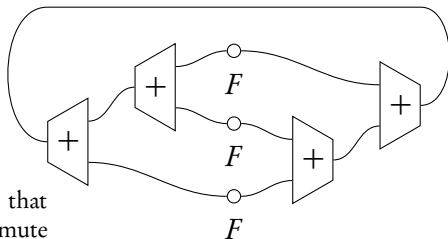
What this really says is that  
 $+$  (addition) and  $\cdot$  (scaling)  
 commute with each other!





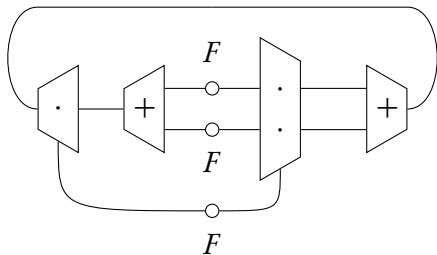
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These really say that additions commute with other additions, and scalars commute with other scalars!



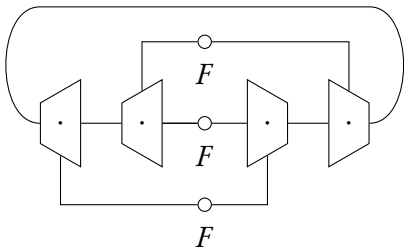
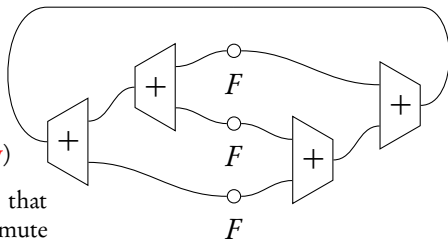
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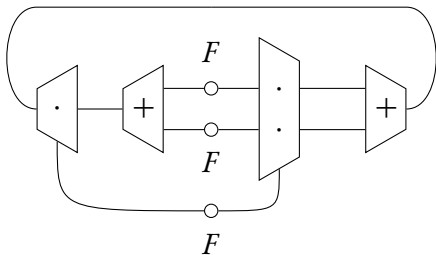


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