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 $\frac{1}{2} = \frac{1}{2} + \frac{1$ 

 $(\mathbf{U},\mathbf{U}) = (\mathbf{U}_{1},\mathbf{v}) + (\mathbf{U}_{2},\mathbf{v}) + (\mathbf{U}_{2},\mathbf{v}$