4

$$\int = r^2 \cos^2\theta + r^2 \sin^2\theta + 2r^2 \sin\theta \cos\theta$$

$$= r^2 \left(1 + \sin^2\theta\right)$$

$$\begin{aligned}
&= r^{2} \left(1 + \sin 2\theta \right) \\
&V \alpha' = A \alpha' V^{\beta} V^{\beta} \\
&= \left(\cos \theta \cdot V^{0} + \sin \theta \cdot V' \right) \\
&- \frac{\sin \theta}{r} \cdot V^{0} + \frac{\cos \theta}{r} \cdot V'
\end{aligned}$$

$$= \left(\frac{r^2 \cos^3 \theta + \frac{3}{5} \sin \theta \cos \theta}{-r \sin \theta \cos^2 \theta - \frac{3}{5} \sin^2 \theta} + \frac{r^2 \sin^2 \theta \cos \theta}{r \sin^2 \theta \cos \theta} + \frac{3}{5} \cos^2 \theta} \right) = \left(\frac{V^n}{V^{\theta}} \right)$$

$$= \left(r^{2} \left(\sin^{2}\theta + \cos^{2}\theta\right) + 3r\sin^{2}\theta\right)$$

$$r\left(\sin^{2}\theta \cos \theta - \sin\theta \cos^{2}\theta\right) + 3\left(\cos^{2}\theta - \sin^{2}\theta\right)$$

$$W^{\theta} = \left(\frac{1}{2}\right)$$

$$W^{\theta} = \left(\frac{1}{2}\right)$$

$$= \left(\frac{\sin\theta}{\cos\theta} + \cos\theta\right)$$

$$\left(\cos\theta - \sin\theta\right)/r$$

$$= \left(\frac{\partial t}{\partial r}, \frac{\partial t}{\partial \theta}\right)$$

$$= \left(2r\left(1+\sin^{2}\theta\right), r^{2} \cos^{2}\theta\right)$$

$$= \left(2r\left(1+\sin^{2}\theta\right), r^{2} \cos^{2}\theta\right)$$

$$= \left(2r\left(2x+2y\right)\sin\theta + \cos\theta\right), \left(2x+2y\right) \cdot \left(\cos\theta - \sin\theta\right) \cdot r\right)$$

$$\left(2r\left(\sin\theta + \sin\theta\right)\left(\sin\theta + \cos\theta\right), 2r\left(\sin\theta + \cos\theta\right)\left(\cos\theta - \sin\theta\right) \cdot r\right)$$

$$\frac{1}{2r(1+\sin 2\theta)}, 2r^{2}(\cos^{2}\theta - \sin^{2}\theta)$$

$$\frac{2r^{2}\cos 2\theta}{2}$$

$$\frac{1}{2w} \int_{w}^{w} \int_{v}^{v} \int_{v}^{1} \int_{uv}^{0} \int_{uv}^{0} \int_{v}^{u} \int_{v}^{0} \int_{v}$$

$$= \left(\begin{array}{cc} l & D \\ O & \gamma^2 \end{array} \right)$$

$$\widetilde{V} = \begin{bmatrix} V_r \\ V_{\bullet} \cdot Y^2 \end{bmatrix} = \begin{bmatrix} V_{\chi} \wedge 1_{1'} + V_{\phi} \wedge 2_{1'} \\ V_{\chi} \wedge 1_{2'} + V_{\phi} / 2_{1'} \end{bmatrix}$$

$$\widetilde{W} = \begin{bmatrix} W_r \\ W_{\bullet} \cdot Y^2 \end{bmatrix} = \begin{bmatrix} W_{\chi} / 1_{1'} + W_{\phi} / 2_{1'} \\ W_{\chi} \wedge 1_{2'} + W_{\phi} / 2_{1'} \end{bmatrix}$$

$$\widetilde{W} = \begin{bmatrix} W_r \\ W_{\bullet} \cdot Y^2 \end{bmatrix} = \begin{bmatrix} W_{\chi} / 1_{1'} + W_{\phi} / 1_{1'} \\ W_{\chi} \wedge 1_{2'} + W_{\phi} / 1_{2'} \end{bmatrix}$$

$$V_{i\beta}^{\alpha} = \begin{pmatrix} 2x & 3 \\ 3 & 2y \end{pmatrix} = \begin{pmatrix} 2r\cos\theta & 3 \\ 3 & 2r\sin\theta \end{pmatrix}$$

$$= \bigwedge_{1}^{1} \bigwedge_{1}^{1} \bigvee_{1}^{1} + \bigwedge_{1}^{1} \bigwedge_{1}^{2} \bigvee_{1}^{2} + \bigwedge_{2}^{1} \bigwedge_{1}^{1} \bigvee_{1}^{2} + \bigwedge_{2}^{1} \bigwedge_{1}^{2} \bigwedge_{1}^{2} \bigvee_{1}^{2} + \bigwedge_{2}^{1} \bigwedge_{1}^{2} \bigvee_{1}^{2} + \bigwedge_{2}^{1} \bigwedge_{1}^{2} \bigvee_{1}^{2} + \bigwedge_{2}^{1} \bigwedge_{1}^{2} \bigvee_{1}^{2} + \bigwedge_{2}^{1} \bigvee_{1}^{2} + \bigvee_{1}^$$

$$\begin{pmatrix}
27\cos\theta & 3 \\
3 & 27\sin\theta
\end{pmatrix}$$

$$V^{\alpha}_{;\alpha} = \frac{1}{r} \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial \theta} V^{\theta}$$

$$V^{r}_{;\alpha} = \frac{1}{r} \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial \theta} V^{\theta}$$

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$$V^{r}_{;\alpha} = \frac{1}{r} \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial r} (r V^{r})$$

$$V^{r}_{;\alpha} = \frac{1}{r} \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial r} (r V^{r})$$

$$V^{r}_{;\alpha} = \frac{1}{r} \frac{\partial}{\partial r} (r V^{r}) + \frac{\partial}{\partial r} (r V^{r}) +$$

$$\sqrt{d}_{j} = \frac{1}{r} \left[\frac{3}{3} r^{2} \left(\cos^{3}\theta + 6in^{3}\theta \right) + 6 r \sin^{2}\theta \right]$$

$$+ \left[\frac{\sin^{2}\theta}{2\cos\theta} \cdot \cos\theta - \sin^{2}\theta \sin\theta - \cos\theta \cos^{2}\theta \right]$$

$$+ 3 \cdot 2\cos\theta \cdot \sin\theta - 3 \cdot 2\sin\theta - \cos\theta$$

$$=3r(60530+5in^3\theta)+65in(20)+r(25in\theta cos^2\theta-5in^3\theta-cos^3\theta+25in^2\theta cos\theta)$$

-65in(20)

$$=2r\left(\cos^3\theta + \sin^3\theta + \sin\theta\cos^2\theta + \sin^2\theta\cos\theta\right)$$

$$=2r\left(\sin\theta\left(\sin^2\theta + \cos^2\theta\right) + \cos\theta\left(\cos^2\theta + \sin^2\theta\right)\right)$$

$$=2r\left(\sin\theta\left(\sin\theta + \cos\theta\right)\right)$$

$$P_{\alpha,\beta} = \begin{pmatrix} 2 \times 3 \\ 3 + 2 \end{pmatrix} = \begin{pmatrix} 2r \cos \theta & 3 \\ 3 & 2r \sin \theta \end{pmatrix}$$

$$V^{\alpha}_{j,u,j}v \qquad V^{r=1} \quad V^{\theta} = 0$$

$$V^{\alpha}_{j,u} = V^{\alpha}_{j,u} + V^{\gamma}_{\gamma,u} = 13^{\alpha}_{u}$$

$$\left(\begin{array}{ccc}
B^{\alpha}u,v &= B^{\alpha}u,v \\
B^{\alpha}u,v &= B^{\alpha}u,v \\
\end{array}\right) + \left(\begin{array}{ccc}
B^{\alpha}u,v &= B^{\alpha}u,v \\
B^{\alpha}u,v &= B^{\alpha}u,v \\
\end{array}\right) + \left(\begin{array}{ccc}
B^{\alpha}u,v &= B^{\alpha}u,v \\
B^{\alpha}u,v &= B^{\alpha}u,v \\
\end{array}\right) + \left(\begin{array}{ccc}
B^{\alpha}u,v &= B^{\alpha}u,v \\
\end{array}\right)$$

$$\begin{pmatrix}
\sqrt{2} & r & \sqrt{2} & r & r \\
\sqrt{2} & r & \sqrt{2} & r & r
\end{pmatrix} = \begin{pmatrix}
0 + 0 & 0 + 0 \\
0 + 0 & -1 & 0
\end{pmatrix}$$

$$V = V^{\theta}; \theta; r = -\int_{r^2}$$

$$V_{irig} = \frac{1}{r}$$