3489. $2\frac{\partial^2 z}{\partial x^2}+\frac{\partial^2 z}{\partial x\,\partial y}-\frac{\partial^2 z}{\partial y^2}+\frac{\partial z}{\partial x}+\frac{\partial z}{\partial y}=0$, если $u=x+2y+2$ и $v=x-y-1$.

3490. $(1+x^2)\frac{\partial^2 z}{\partial x^2}+(1+y^2)\frac{\partial^2 z}{\partial y^2}+x\frac{\partial z}{\partial x}+y\frac{\partial z}{\partial y}=0$, если $u=\ln(x+\sqrt{1+x^2})$ и $v=\ln(y+\sqrt{1+y^2})$.

3491. $ax^2\frac{\partial^2 z}{\partial x^2}+2bxy\frac{\partial^2 z}{\partial x\,\partial y}+cy^2\frac{\partial^2 z}{\partial y^2}=0$ (a, b, c — постоянны), если $u=\ln x$ и $v=\ln y$.

3492. $\frac{\partial^2 z}{\partial x^2}+\frac{\partial^2 z}{\partial y^2}=0$, если

$$u=\frac{x}{x^2+y^2}\text{ и }v=-\frac{y}{x^2+y^2}.$$

3493. $\frac{\partial^2 z}{\partial x^2}+\frac{\partial^2 z}{\partial y^2}+m^2z=0$, если

$$x=e^u\cos v,\ y=e^u\sin v.$$

3494. $\frac{\partial^2 z}{\partial x^2}-y\frac{\partial^2 z}{\partial y^2}=\frac{1}{2}\frac{\partial z}{\partial y}$ ($y>0$), если

$$u=x-2\sqrt{y}\text{ и }v=x+2\sqrt{y}.$$

3495. $x^2\frac{\partial^2 z}{\partial x^2}-y^2\frac{\partial^2 z}{\partial y^2}=0$, если $u=xy$ и $v=\frac{x}{y}$.

3496. $x^2\frac{\partial^2 z}{\partial x^2}-(x^2+y^2)\frac{\partial^2 z}{\partial x\,\partial y}+y^2\frac{\partial^2 z}{\partial y^2}=0$, если $u=x+y$ и $v=\frac{1}{x}+\frac{1}{y}$.

3497. $xy\frac{\partial^2 z}{\partial x^2}-(x^2+y^2)\frac{\partial^2 z}{\partial x\,\partial y}+xy\frac{\partial^2 z}{\partial y^2}+y\frac{\partial z}{\partial x}+x\frac{\partial z}{\partial y}=0$, если $u=\frac{1}{2}(x^2+y^2)$ и $v=xy$.

3498. $x^2\frac{\partial^2 z}{\partial x^2}-2x\sin y\frac{\partial^2 z}{\partial x\,\partial y}+\sin^2 y\frac{\partial^2 z}{\partial y^2}=0$, если

$$u=x\operatorname{tg}\frac{y}{2}\text{ и }v=x.$$

3499. $x\frac{\partial^2 z}{\partial x^2}-y\frac{\partial^2 z}{\partial y^2}=0$ ($x>0$, $y>0$), если

$$x=(u+v)^2\text{ и }y=(u-v)^2.$$