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Introduction. $r_2 u = f$ $\mathbb{D} \subset \mathbb{R}^2$ $C_2(\mathbb{D}) \cup \mathbb{R}^2$ $C_2(\mathbb{D}) \cap \mathbb{R}^2 = [1, 1] \times [1, 0] \cup \mathbb{R}^2$. $D = \{f = 0, g = u\}$, $u = r^2/3 \sin 2\theta + \theta^3$. $\langle \text{latexit sha}_1_base64=(\text{null}) \rangle \langle \text{latexit} \rangle$. •There are various reasons for using an integral version of the PDE. •even for smooth initial data, PDEs may exhibit discontinuous behaviour.

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