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Motivated by searching for positive radially symmetric solutions in a fixed exterior domain in \mathbb{R}^N for partial differential equations involving the curvature operator, we deal with the asymptotic and boundary value problems on the half-line for equations with the Euclidean mean curvature operator

$$\left(a(t) \frac{x'}{\sqrt{1+x'^2}} \right)' + b(t)F(x) = 0, \quad (1)$$

and with the Minkowski mean curvature operator

$$\left(a(t) \frac{x'}{\sqrt{1-x'^2}} \right)' + b(t)F(x) = 0, \quad (2)$$

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