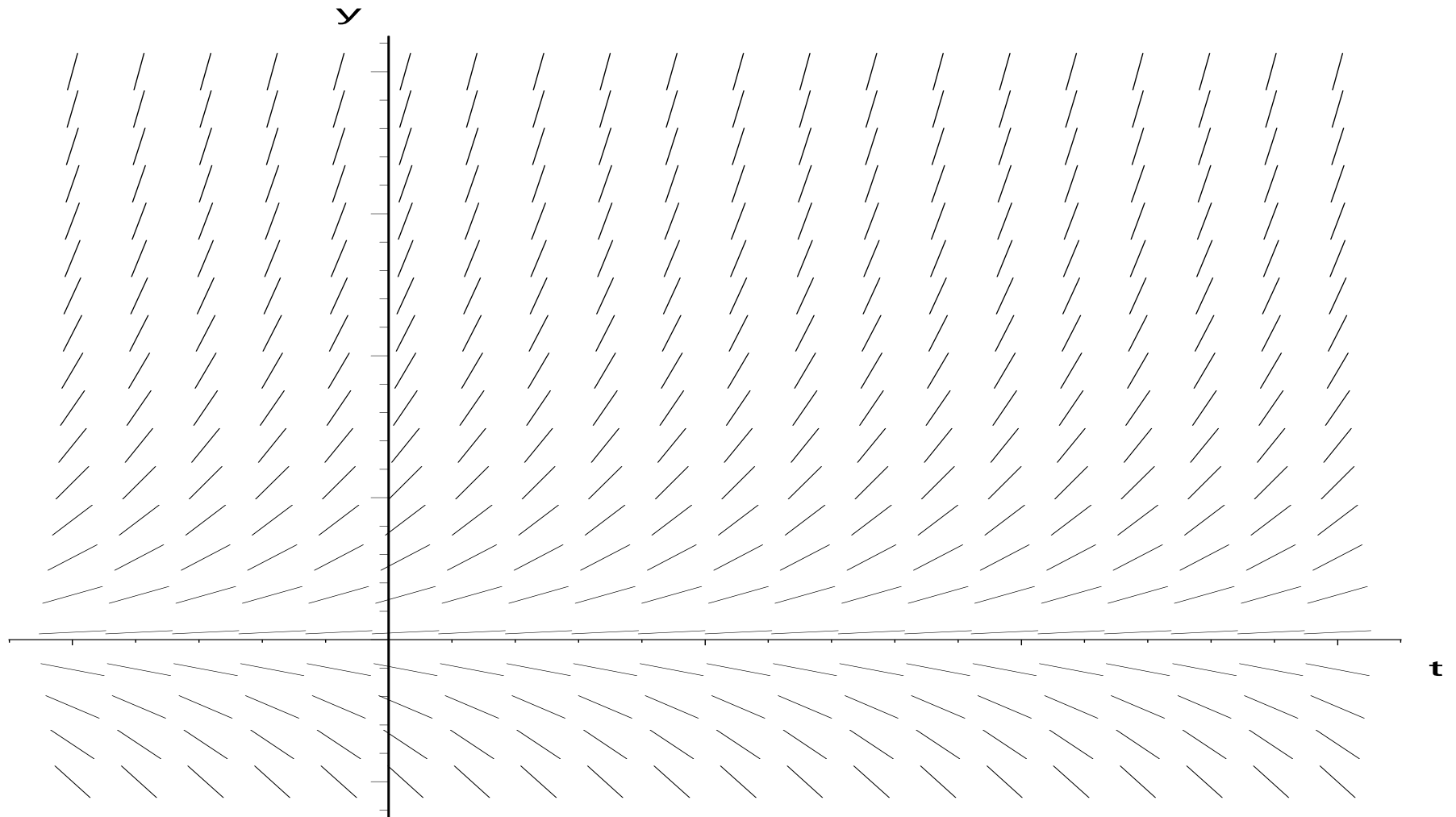
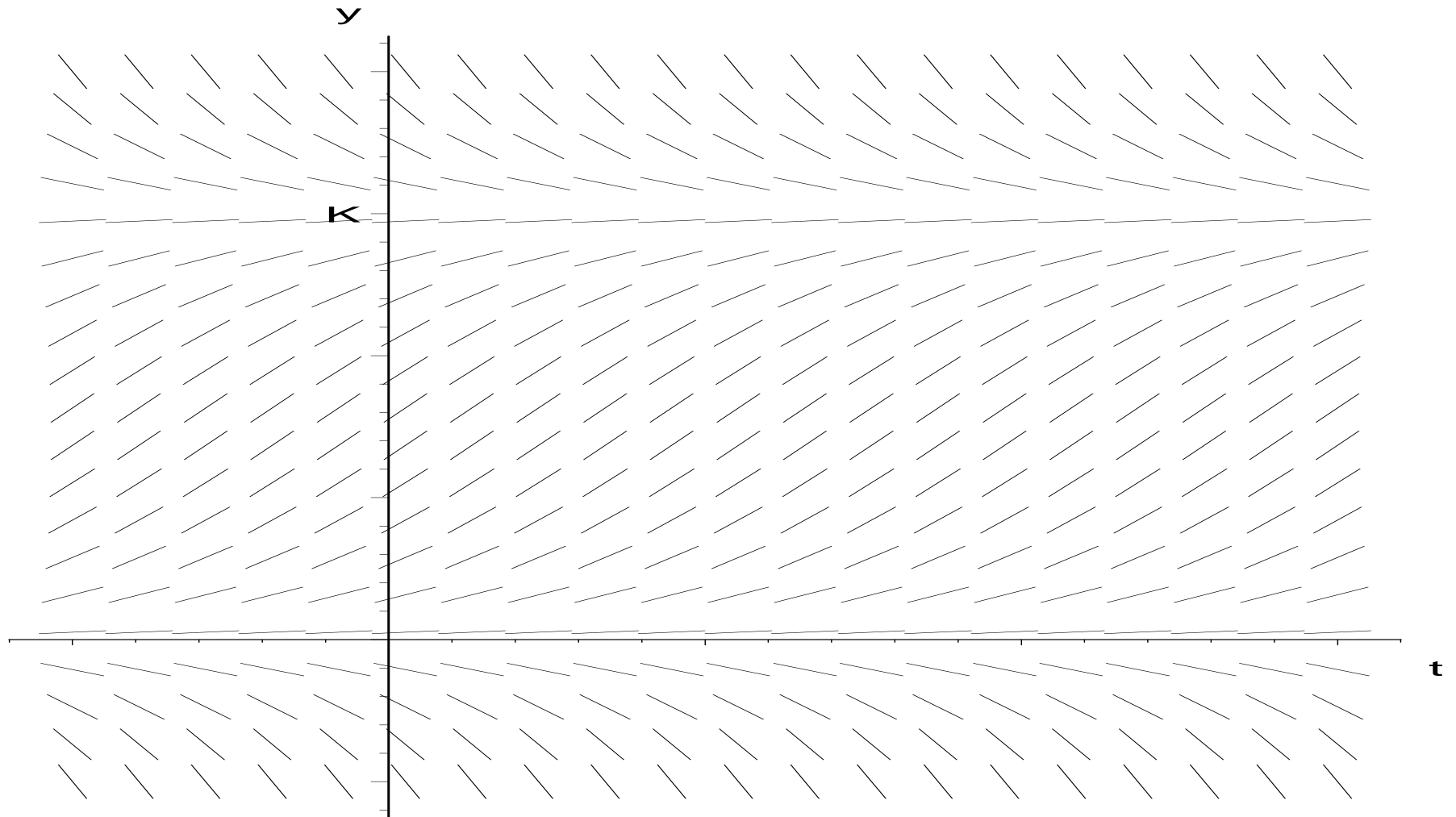


EXPONENTIAL GROWTH $y' = r y$



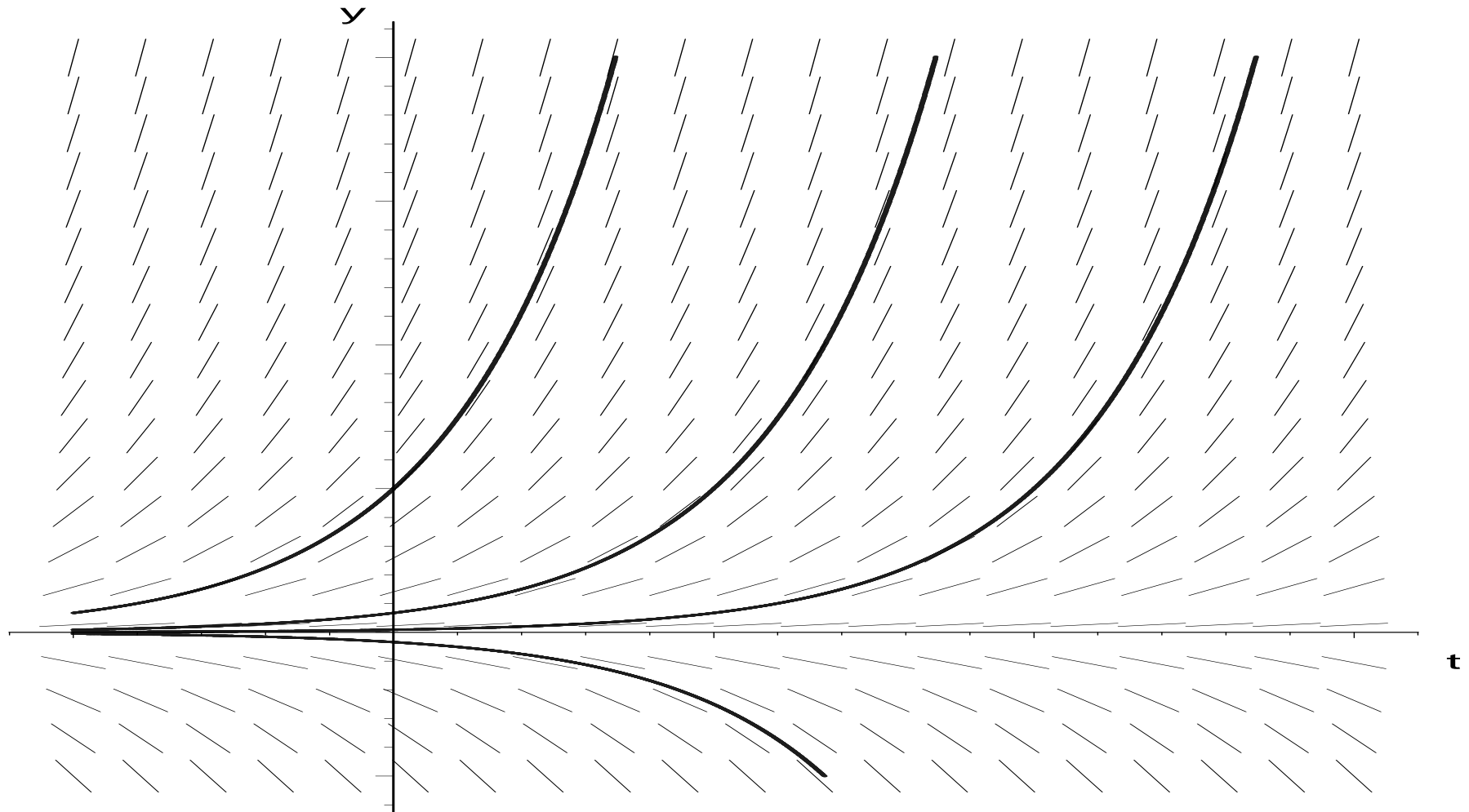
Note: because the equation is autonomous, the direction field is unchanged if shifted left or right.

LOGISTIC EQUATION $y' = r y (1 - y/K)$



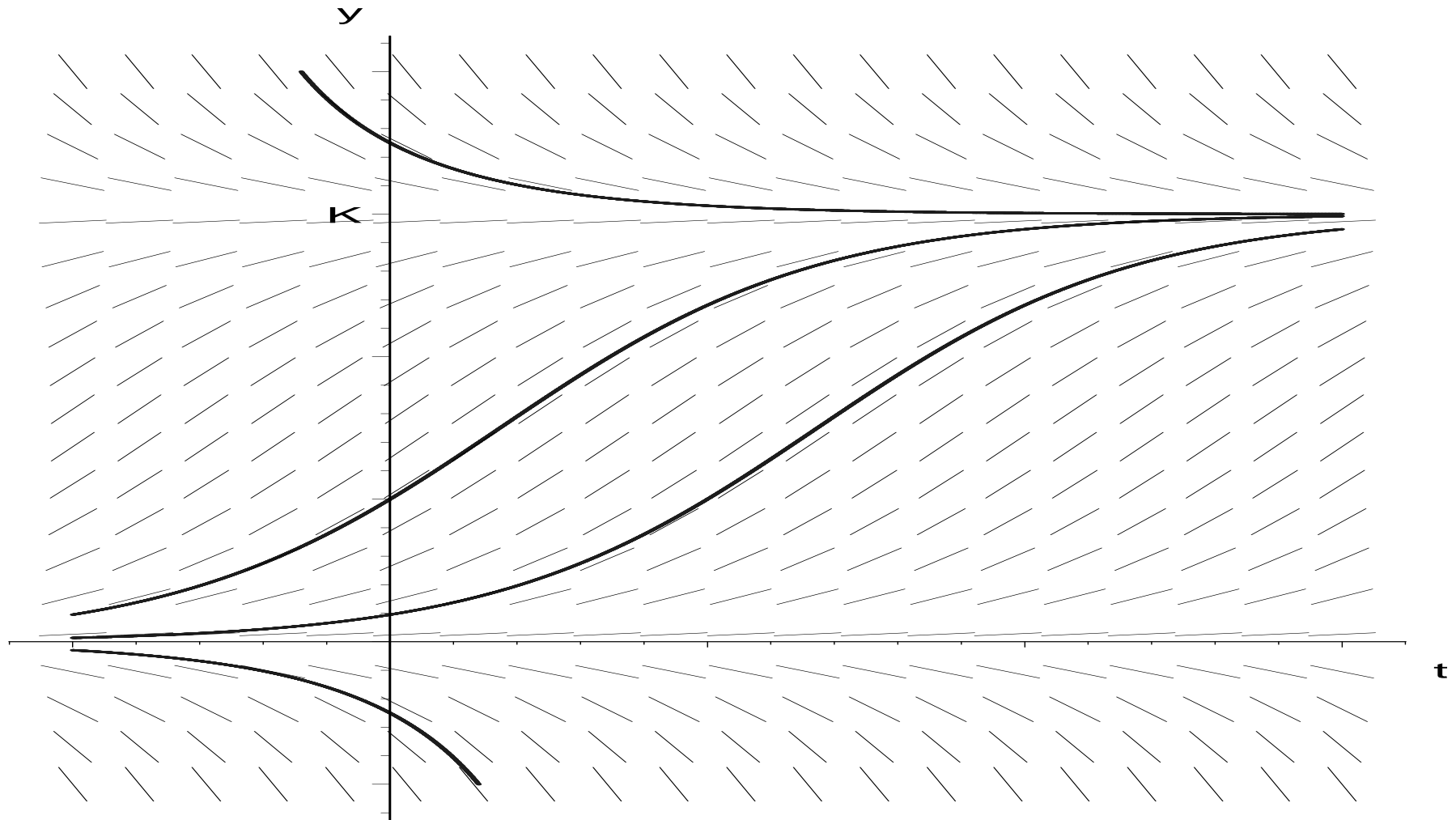
Note: because the equation is autonomous, the direction field is unchanged if shifted left or right.

EXPONENTIAL GROWTH $y' = r y$



Note: a solution curve shifted left or right is still a solution curve. That is, if $\phi(t)$ is a solution, so is $\phi(t - t^*)$ for fixed t^* .

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