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1. Match the differential equation with its direction field. Draw two solution curves on each direction field.



2. Show that $y = e^{-2x}$ is a solution to the differential equation

$$y'' + y' - 2y = 0$$

3. Use Taylor's inequality to find an upper bound on the maximum error in using $T_2(x)$ centered at a = 1 to approximate $f(x) = x^{2/3}$ over $0.9 \le x \le 1.1$.