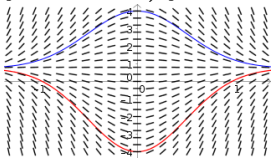
Kapittel ??

?? **a)** $y = Ct - \frac{1}{2}gt^2 + D$ **b)** $y = v_0 - \frac{1}{2}gt^2$.
?? Se løsningsforslag.
?? **a)** $Ce^{-4x} + 2$ **b)** $y = x^{-1}(C + \cos x) + \sin x$ **c)** $y = Cx^{-3} + \frac{6x^2}{5} + \frac{x}{2}$ **d)** $y = Ce^{-x^3} + e^x$
?? **a)** $y = Ce^{\frac{1}{2}e^x(\sin x + \cos x)}$ **b)** $y = \pm\sqrt{Ce^{2x^3} - 1}$
?? **a)** $y = xe^{x^2-1}$ **b)** $y = -\operatorname{atan}(1 - \sqrt{x})$
?? **a)**  **b)** $y' = 0$ **c)** $y' = 0$ **d)** $y'(-3,5) = 51$, $y'(2,4) = 20$
?? **a)** $y = Ce^{-x} + De^{2x}$ **b)** $y = (C + Dx)e^{3x}$ **c)** $y = e^{2x}(C\cos(3x) + D\sin(3x)$
?? **a)** $y = -\frac{1}{8}\left(e^{5x} + 7e^{-3x}\right)$ **b)** $y = 2e^{-5x} + 11xe^{-5x}$ **c)** $y = e^x\cos(2x)$
?? **a** $y' = ky$, $k > 0$ **b)** $y = 100 \cdot 1.01^t$
?? **a)** $T = T_a + Ce^{-kt}$ **b)** $T = 15 + 80e^{-\frac{\ln 2}{5}t}$ **c)** $T(15) = 25$ **d)** Temperaturen til gjenstanden går mot romtemperaturen.
?? Se løsningsforslag.
?? **a)** $y = 2\cos(5t)$ **b)** $\frac{2\pi}{5}$ **c)** $e^{-3x}\sin(4t)$