$y = 3t^2$

$\frac{dy}{dt} = 6t$

$y = 5t^3 - 4t$

$\frac{dy}{dt} = 15t^2 - 4$

$y = 7t^3 - 4t^2$

$\frac{dy}{dt} = 21t^2 - 8t$

$y = t^2 - 5$

$\frac{dy}{dt} = 18t^2$

$\frac{dy}{dt} = 2t$

$y = 5t^2 - 9t$

$\frac{dy}{dt} = 10t - 6$

$y = 8t^2 + 7t$

$\frac{dy}{dt} = 16t + 7$

$y = 6t^3 + 9$

$y = 7t^2 + 8$

$\frac{dy}{dt} = 12t + 3$

$y = 6t^2 + 3t$

$\frac{dy}{dt} = 12t^2 - 10t$

$y = 3t^4 + 2t^2$

$\frac{dy}{dt} = 12t^3 + 4t$

$y = 2t^4 - 3t^2$

$\frac{dy}{dt} = 8t^3 - 6t$

$y = 3t^4 + 3t^2$

$\frac{dy}{dt} = 12t^3 + 6t$

$\frac{dy}{dt} = 14t$

$y = 4t^3 + 4t^2$

$\frac{dy}{dt} = 12t^2 + 8t$

$y = 2t^6 - 3t^4$

$\frac{dy}{dt} = 12t^5 - 12t^3$

$y = 2t^6 - 5$

$\frac{dy}{dt} = 18t$

$y = t^3 - t^2$

$\frac{dy}{dt} = 3t^2 - 2t$

$\frac{dy}{dt} = 8t^3 + 12t$

$\frac{dy}{dt} = 12t^2 - 6$

$y = 2t^4 + 6t^2$

$y = 2t^3 - 9t^2$

$\frac{dy}{dt} = 12t^5 - 12t^2$

$y = 6t^3 + 2t^2$

$\frac{dy}{dt} = 18t^2 + 4t$

$y = 4t^3 - 6t$

$\frac{dy}{dt} = 6t^2$