1.) $y' = \frac{\pi \cos(\pi t)}{3\sin^{2/3}(\pi t)}$

2.) $y' = 8x^3(2x-5)^3 + 3x^2(2x-5)^4$

3.) $y' = -\csc x \cot x - \frac{2}{\sqrt{x}}$

4.) $y' = -\sin^4(x) + 3\sin^2 x \cos^2 x$

5.) $y' = \frac{-x\sin x}{2\sqrt{\cos x}} + \sqrt{\cos x}$

6.) $y' = -12\csc^3(2x)\cot(2x) + 8x$

7.) $y' = \frac{5\tan(3x^2) - 30x^2\sec^2(3x^2)}{\tan^2(3x^2)}$

8.) $y' = 6x\sec(3x^2)\tan(3x^2)$

9.) $y' = 6x\cos(3x+1)\sin(3x+1) - \cos^2(3x+1)$

10.) $y' = 72t^2\sec^4(6t^3)\tan(6t^3)$

11.) $y' = 12\sin^2(4t)\cos(4t)$

12.) $y' = 2(9t^2-1)\cot(3t^3-t)\csc^2(3t^3-t)$

13.) $y' = \frac{5\sec^2(5x)}{2\sqrt{\tan 5x}}$

14.) $y' = 3\sin^2 x\cos x + 8\sin x\cos x$