1 Differenciation

$$\frac{1}{\ln\left(\sin\left(x\right)\right)\tan\left(x\right)} \tag{1}$$

$$\frac{5\left(\tan^{2}\left(\csc\left(\frac{1}{x^{5}}\right)\right)+1\right)\cot\left(\frac{1}{x^{5}}\right)\csc\left(\frac{1}{x^{5}}\right)}{x^{6}} \tag{2}$$

$$3x^{2}\tan\left(x^{3}\right)\sec\left(x^{3}\right) \tag{3}$$

$$-e^{e^{\cos\left(x\right)}+\cos\left(x\right)}\ln\left(e\right)^{2}\sin\left(x\right) \tag{4}$$

$$\frac{1}{x\tan\left(\ln\left(x\right)\right)} \tag{5}$$

$$-\frac{3\ln\left(x\right)^{2}\cot\left(\ln\left(x\right)^{3}\right)\csc\left(\ln\left(x\right)^{3}\right)}{x} \tag{6}$$

$$-\frac{25x^{4}}{\sin^{2}\left(x^{5}\right)} \tag{7}$$

$$\frac{\cos\left(\ln\left(\ln\left(x\right)\right)\right)}{x\ln\left(x\right)} \tag{8}$$

$$-e^{\sin\left(x\right)}\ln\left(e\right)\sin\left(e^{\sin\left(x\right)}\right)\cos\left(x\right) \tag{9}$$

$$\sin\left(x\right)\sin\left(\sin\left(\cos\left(x\right)\right)\right)\cos\left(\cos\left(x\right)\right) \tag{10}$$

$$-\frac{\cos\left(\frac{1}{x}\right)}{x^{2}} \tag{11}$$

$$\frac{5\tan^{4}\left(\ln\left(x\right)\right)}{x\cos^{2}\left(\ln\left(x\right)\right)} \tag{12}$$

$$-\frac{3\cos\left(x\right)}{2\left(3\sin\left(x\right)-4\right)^{3}} \tag{13}$$

$$-\frac{10e^{\frac{1}{x^{10}}}\ln\left(e\right)}{x^{11}\cos^{2}\left(e^{\frac{1}{x^{10}}}\right)} \tag{14}$$

$$72\sin^{71}\left(x\right)\cos\left(x\right) \tag{15}$$

$$-\frac{75}{\left(5x+3\right)^{16}} \tag{16}$$

$$\sin\left(\sin\left(x\right)\right)\sin\left(\cos\left(\sin\left(x\right)\right)\right)\cos\left(x\right) \tag{17}$$

$$\frac{3\cos\left(3\cot\left(x\right)+5\right)}{\sin^{2}\left(x\right)} \tag{18}$$

$$\frac{1}{\sin\left(\tan\left(x\right)\right)\cos^{2}\left(x\right)\cos\left(\tan\left(x\right)\right)} \tag{19}$$

$$-\frac{2e^{\cot\left(x^{2}\right)}x\ln\left(e\right)}{\sin^{2}\left(x^{2}\right)} \tag{20}$$

2 Matrices

$$\begin{bmatrix} \frac{22}{17} & -\frac{21}{17} & 1 \\ -\frac{27}{17} & \frac{25}{17} & -1 \\ \frac{30}{17} & -\frac{24}{17} & 1 \end{bmatrix} \tag{21}$$

$$\begin{bmatrix} -\frac{2}{147} & \frac{5}{49} & \frac{1}{7} \\ \frac{1}{21} & \frac{1}{7} & 0 \\ \frac{11}{49} & -\frac{9}{49} & \frac{1}{7} \end{bmatrix} \tag{22}$$

$$\begin{bmatrix} \frac{30}{13} & \frac{31}{26} & \frac{67}{26} \\ 3 & \frac{3}{2} & \frac{7}{2} \\ \frac{5}{13} & \frac{3}{26} & \frac{9}{26} \end{bmatrix} \tag{23}$$

$$\begin{bmatrix} \frac{7}{13} & -\frac{1}{13} & \frac{15}{104} \\ \frac{1}{26} & -\frac{1}{13} & -\frac{9}{208} \\ \frac{1}{2} & 0 & \frac{1}{16} \end{bmatrix} \tag{24}$$

$$\begin{bmatrix} \frac{2}{5} & 0 & \frac{3}{5} \\ -\frac{4}{25} & -\frac{1}{10} & -\frac{7}{50} \\ -\frac{19}{25} & -\frac{1}{10} & -\frac{77}{50} \end{bmatrix} \tag{25}$$

$$\begin{bmatrix} \frac{5}{54} & \frac{1}{30} & -\frac{4}{135} \\ \frac{1}{9} & -\frac{1}{10} & \frac{13}{90} \\ \frac{1}{18} & \frac{1}{10} & \frac{1}{45} \end{bmatrix} \tag{26}$$

$$\begin{bmatrix} -\frac{2}{9} & -\frac{17}{27} & \frac{8}{27} \\ \frac{1}{9} & \frac{4}{27} & \frac{1}{54} \\ \frac{4}{27} & \frac{52}{81} & -\frac{41}{162} \end{bmatrix} \tag{27}$$

$$\begin{bmatrix} \frac{9}{41} & -\frac{1}{41} & \frac{35}{41} \\ -\frac{4}{41} & \frac{5}{41} & -\frac{11}{41} \\ -\frac{13}{41} & \frac{6}{41} & -\frac{87}{41} \end{bmatrix} \tag{28}$$

$$\begin{bmatrix} \frac{21}{416} & \frac{1}{32} & \frac{53}{416} \\ \frac{75}{416} & -\frac{1}{32} & \frac{11}{416} \\ \frac{11}{104} & -\frac{1}{8} & \frac{3}{104} \end{bmatrix} \tag{29}$$

$$\begin{bmatrix} \frac{19}{246} & -\frac{25}{246} & -\frac{2}{123} \\ -\frac{1}{123} & -\frac{1}{41} & \frac{11}{123} \\ \frac{3}{82} & \frac{9}{82} & \frac{4}{41} \end{bmatrix} \tag{30}$$