1 Differenciation

Differenciate the following equations:

$$8e^{\ln(x)} - 1 \tag{1}$$

$$9\tan(\tan(x)) - 6 \tag{2}$$

$$\ln\left(e^{e^x}\right) \tag{3}$$

$$e^{\sin(\cos(x))} \tag{4}$$

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

$$\tan\left(\frac{1}{\sin(x)}\right) \tag{6}$$

$$5 - 7e^{\tan(x)} \tag{7}$$

$$e^{\tan(4x-5)} \tag{8}$$

$$\sin(\tan(\tan(x))) \tag{9}$$

$$-20\cos(x) - 2 \tag{10}$$

$$\sin(9x - 6) + 5 \tag{11}$$

$$\cos\left(\cos\left(\frac{1}{x}\right)\right) \tag{12}$$

$$\sin(\ln(3 - 2x)) \tag{13}$$

$$\tan\left(\frac{1}{\ln(x)}\right) \tag{14}$$

$$\sin(\cos(e^x)) \tag{15}$$

$$\cot(\sin(\sec(x))) \tag{16}$$

$$\sec(\sin(\ln(x))) \tag{17}$$

$$\ln(\ln(e^x)) \tag{18}$$

$$\ln(-\sin(3x - 8)) \tag{19}$$

$$\cos(\tan(4x - 4)) \tag{20}$$