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$$a) y = 10^x$$

$$= e^{\ln 10^x}$$

$$y' = \ln 10^x \cdot e^{\ln 10^x}$$

$$= \ln 10^x \cdot 10^x$$

$$b) y = 2^x$$

$$y = (e^{\log_e 2})^x$$

$$= e^{\ln 2 \cdot x}$$

$$y' = [e^{\ln 2 \cdot x}] \cdot \ln 2$$

$$= 2^x \cdot \ln 2$$

$$c) y = 12^x$$

$$y' = 12^x \cdot \ln 12$$

$$d) y = 1,5^x$$

$$y' = 1,5^x \cdot \ln 1,5$$

$$e) y = 10^{2x}$$

$$y' = 10^{2x} \cdot \ln 10 \cdot 2$$

$$= [2 \cdot \ln 10 \cdot 10^{2x}]$$

$$f) y = 10^{-3x}$$

$$= 10^{-3x} \cdot \ln 10 \cdot (-3)$$