

2.1.2.1.1

(a) $X = e^{-2k}$, $k = 1$ \Rightarrow $X = e^{-2}$
 $X' = \frac{1}{2X^2} = \frac{1}{2e^{-4}} = \frac{1}{2}e^4$
 (b) $X = e^{-2k}$, $k = 2$, $a = 2$, $b = 2$
 $X' = \frac{1}{2X^2} = \frac{1}{2e^{-8}} = \frac{1}{2}e^8$
 (c) $X = e^{-2k}$, $k = 3/k$, $k = 3/k$

$$\tan k' = [\tan (b^{-1}k)]^b$$

$k = 1$, $X = e^{-2k}$, $k = 2$, $a = 2$, $b = 2$ (a)

$$X' = \frac{1}{2X^2}$$

(a) $X = e^{-2k}$, $k = 1$, $X = e^{-2}$

(b) $X = e^{-2k}$, $k = 2$, $X = e^{-4}$

(c) $X = e^{-2k}$, $k = 3/k$, $X = e^{-2}$

(d) $X = e^{-2k}$, $k = 3$, $X = e^{-6}$

(e) $X = e^{-2k}$, $k = 3$, $X = e^{-6}$

(f) $X = e^{-2k}$, $k = 3$, $X = e^{-6}$