

2.7. 16

$$(\sin(x))' = \cos(x) \quad ; \quad (\sin(u))' = \cos(u) \cdot u'$$

$$(\cos(x))' = -\sin(x) \quad ; \quad (\cos(u))' = -\sin(u) \cdot u'$$

$$(\tan(x))' = 1 + \tan^2(x)$$

a) $f'(x) = \cos(x) - 2 \sin(x)$

b) $f'(x) = 1 + \tan^2(x) - 1 = \tan^2(x)$

c) - d) - e) - f) -

g) $f'(x) = \cos(2x) \cdot 2 = 2 \cos(2x)$

h) $f'(x) = 2 \sin(x) \cos(x)$

i) - j) - k) - l) -