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Pg. 229
46.)
 $y = f(x)$

$H(x) = F(f(x))$
 $K(x) = f(x^2)$

find value

- a) $h'(2)$
- b) $K'(2)$

A) $H'(x) = F'(x) \cdot f'(g(x))$

$F(2) = 1 - F'(2) = -1$

$H'(2) = -1 \cdot F'(1) = -1$

$F'(1) = -1$

$H(2) = -1 \cdot F(1) = 1$

$H(2) = 1$

B) $K(x) = g'(x) \cdot f'(g(x))$

$K(x) = g'(x) \cdot f'(g(x))$

$K'(x) = 2x \cdot f'(x^2)$

$K'(2) = 2 \cdot 2 \cdot f'(2^2)$

$K'(2) = 4 \cdot 1 = 4$

$g = x^2$
 $g' = 2x$

$F(2) = -1$

$K(2) = 4 \cdot 1 = 4$

$F'(4) = 1$

$F'(4) = 1$

