

Analytical

$$\frac{1}{2}x^2 - \frac{1}{2}xy^2 + 6y = 2x$$

Find $\frac{dy}{dx}$ when $x = 4$

Numerical

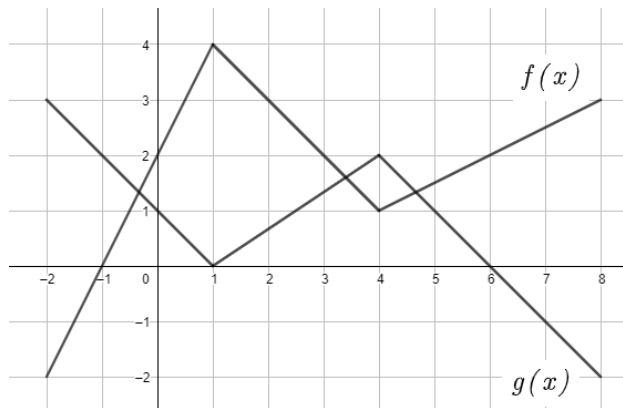
x	-1	0	2	5
$f(x)$	0	2	5	4
$f'(x)$	-3	4	1	-2

$$g(x) = f(f(x))$$

$$g'(-1) =$$

Derivative Rules: Level 2

Graphical



$$h(x) = g(f(x))$$
$$h'(2) =$$

Conceptual/Verbal

g is a linear function with $g(3) = g'(3) = 4$

$$k(x) = \frac{g(x)}{g(x+2)}$$

$$k'(3) =$$