# Related Rates - Key

In problems 1-2, Assume that x and y are both differentiable functions of t. Use the given values to find (a) dy/dt and (b) dx/dt.

1.

a) $\dfrac{dy}{dt} = \dfrac{5}{12}$

b) $\dfrac{dx}{dt} = 81$

2.

a) $\dfrac{dy}{dt} = 12$

b) $\dfrac{dx}{dt} = -18$

3.

a) 0.5
b) -34000
c) -34000.5

4.  -5/4