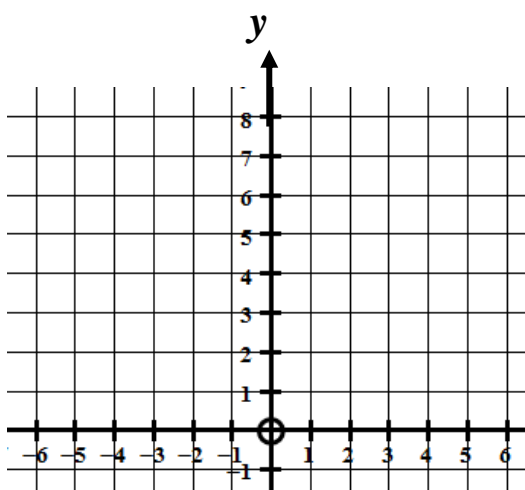
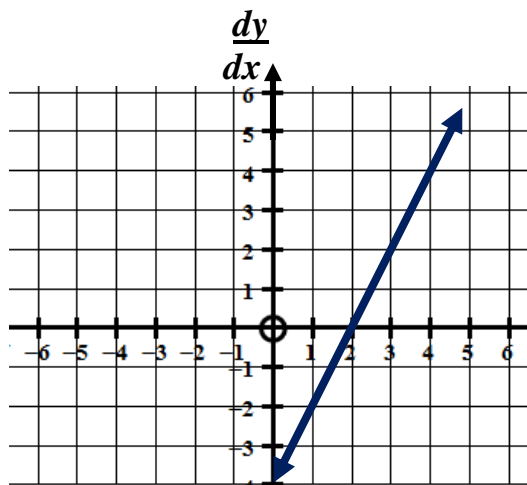


Given a gradient graph, find the equation of the function.

1. The minimum value of y is 3 and the graph of the gradient $\frac{dy}{dx}$ is given

below. Find the equation of the graph and draw it on the axes below.



Working

Min point is (,)

Equ of the gradient is $\frac{dy}{dx} =$

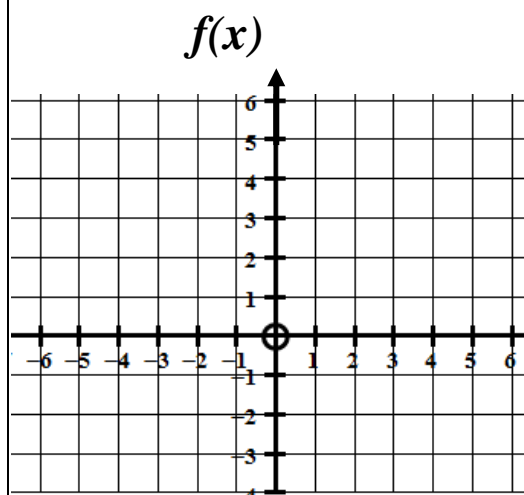
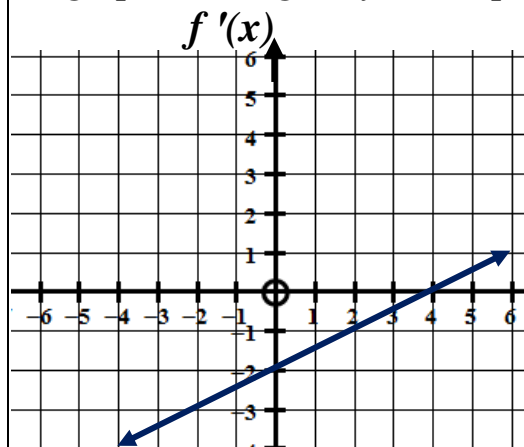
Antidiff to find equ for y :

$y =$

2. The minimum value of $f(x)$ is 1.

The gradient function $f'(x)$ is drawn below.

Find the equation of $y = f(x)$ and draw the graph showing the y intercept.



Working

Min point is (,)

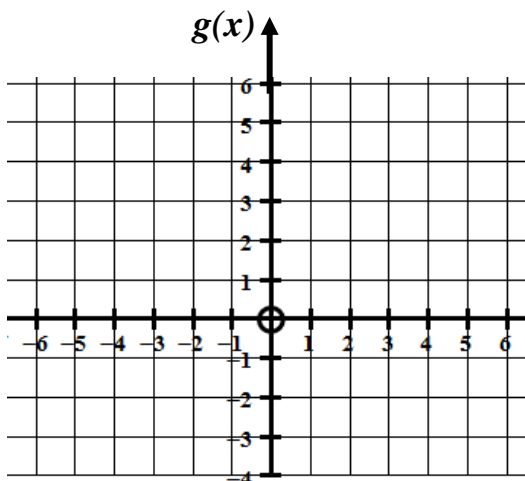
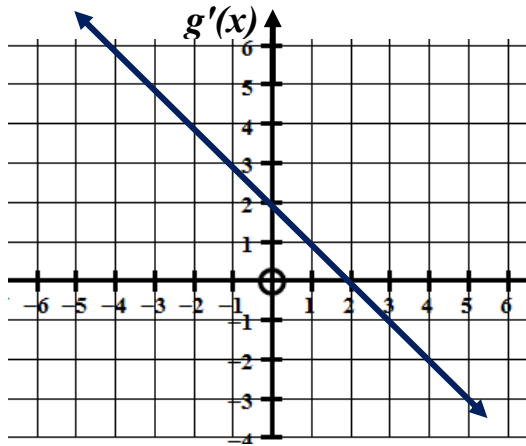
Equ of the gradient is $f'(x) =$

Antidiff to find equ for $f(x)$

$f(x) =$

3. The maximum value of $g(x) = 5$.
The gradient function $g'(x)$ is drawn below.

Find the equation of $y = g(x)$ and draw the graph showing the y intercept.



Working

MAX point is (,)

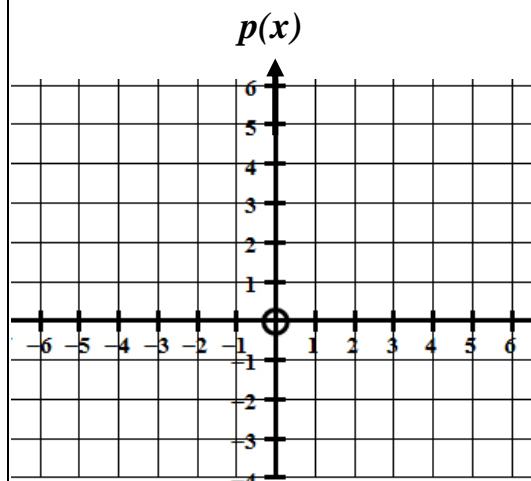
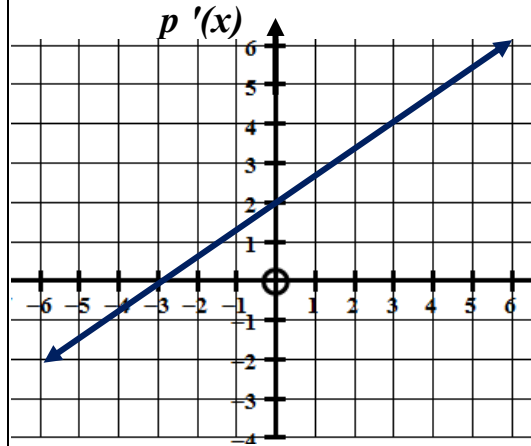
Equ of the gradient is $g'(x) =$

Antidiff to find equ for $g(x)$

$g(x) =$

4. The minimum value of $p(x) = 1$.
The gradient function $p'(x)$ is drawn below.

Find the equation of $y = p(x)$ and draw the graph showing the y intercept.



Working

Min point is (,)

Equ of the gradient is $p'(x) =$

Antidiff to find equ for $p(x)$

$p(x) =$