Given the graph of $f(x)$. sketch the graph of the function $g(x)=-|f(x)|$.



Given the graph of $y=f(x)$ below.

sketch the graph of $y=\frac{1}{f(x)}$.


The graph of $f(x)$ has already been drawn for your reference.

No marks will be awarded for the graph of $f(x)$.
Ni. N.

Identify the domain and range of the following function:

$$
f(x)=\frac{3}{x^{2}+1}
$$



R: $\quad(0,3]$
June 2013
Question 33
2 marks

Given the sinusoidal function $f(x)$ below, sketch the graph of $g(x)=|f(x)|-1$.


Given the graph of $f(x)$ below, explain how you would sketch the graph of $y=|f(x)|$.


Question 42
1 mark

The function $f(x)$ is transformed.
A new function. $y=\frac{1}{f(x)}$, is created that does not have any vertical asymptotes.
What can you conclude about the original function $f(x)$ ? $\quad f(x) \neq 0$

June 2012
30. Given the graph of $y=f(x)$, sketch the graph of $y=|f(x)|$.


The graph of
$y=f(x)$ has
already been
drawn for your
reference.
No marks will be
awarded for this
graph.
42. The graph of the function $y=f(x)$ is shown below.

b) Sketch a clearly labelled graph of $y=\frac{1}{f(x)}$.

44. The graph of $y=f(x)$ is sketched below.


Sketch a clearly labelled graph of:
b) $y=|f(x)|$

d) $y=\frac{1}{f(x)}$

10. The graph of the function $y=f(x)$ is shown below.
c) $y=\frac{1}{f(x)}$


35. Given the graph of $y=f(x)$ below. sketch the graph of $y=|f(x)|$.



January 2011
29. The graph of $y=f(x)$ is shown below. Sketch the graph of $y=|f(x)|$.


The graph of
$y=f(x)$ has
already been
drawn for your
reference.
No marks will be
awarded for this
graph.
47. The graph of the function $y=f(x)$ is shown below.

b) Sketch a clearly labelled graph of $y=\frac{1}{f(x)}$.


| The graph of |
| :--- |
| $y=f(x)$ has |
| already been |
| drawn for yous |
| reference. |
| No marks will be |
| awarded for this |
| graph. |

35. A point on the graph $y=f(x)$ is $(a . b)$. Find a point on the graph of $y=\frac{1}{f(x)}$.

January 2010

$$
\left(a, \frac{1}{b}\right)
$$

36. The graph of $y=f(x)$ is shown below. Sketch the graph of $y=\frac{1}{f(x)}$.

37. If a point on the graph of $y=f(x)$ is $(-2,-3)$, what point must be on the graph of $y=|f(x)| ?$

$$
(-2,3)
$$

