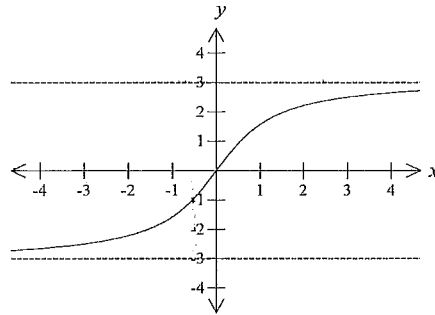


**Graphs**

[Solutions](#)

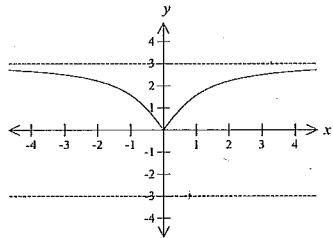
[Main Menu](#)

1 The diagram shows the graph of the function  $y = f(x)$ .

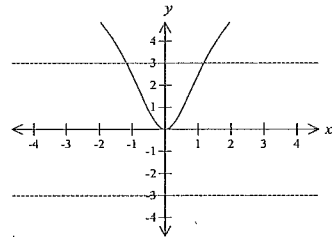


Which of the following is the graph of  $y = \sqrt{f(x)}$ ?

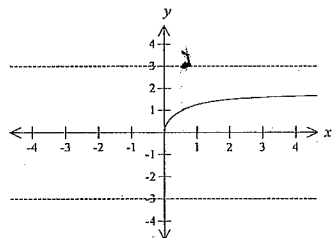
(A)



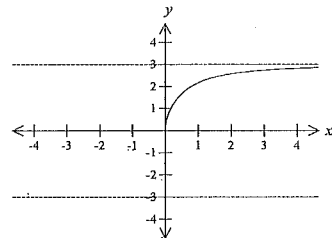
(B)



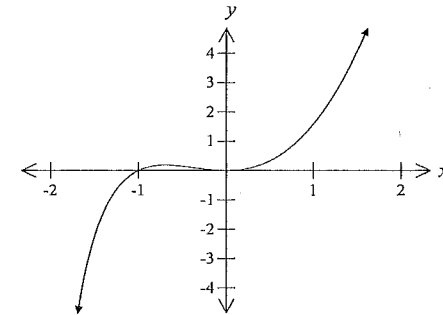
(C)



(D)

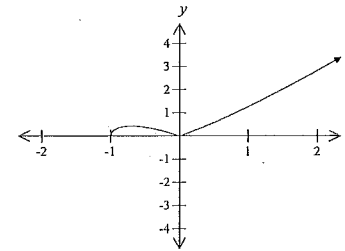


2 The diagram shows the graph of the function  $y = f(x)$ .

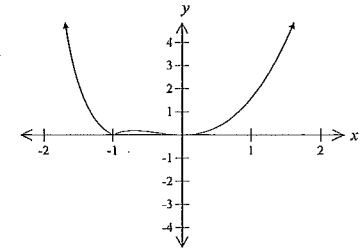


Which of the following is the graph of  $y = f(x)^2$ ?

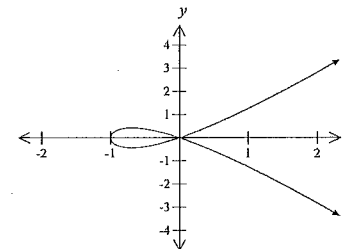
(A)



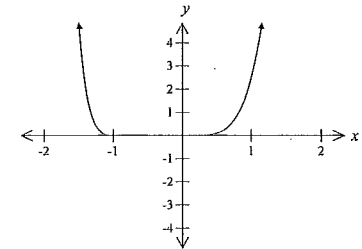
(B)



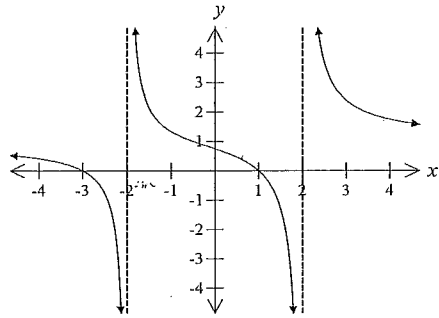
(C)



(D)

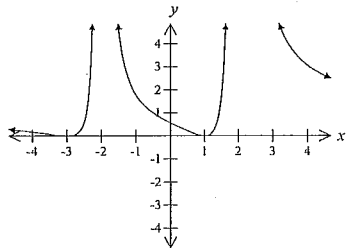


3 The diagram shows the graph of the function  $y = f(x)$ .

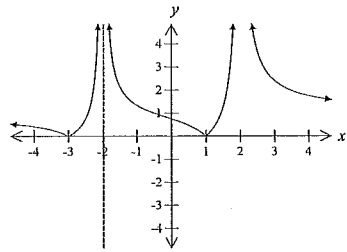


Which of the following is the graph of  $y = |f(x)|$ ?

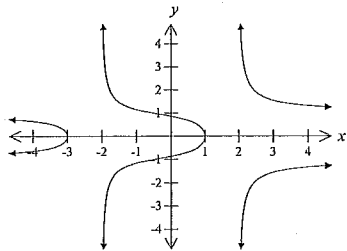
(A)



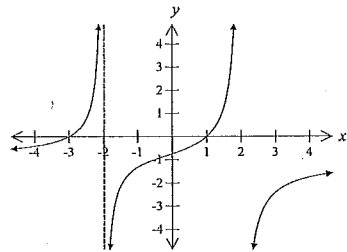
(B)



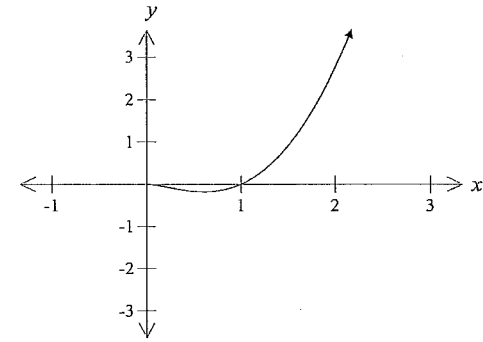
(C)



(D)

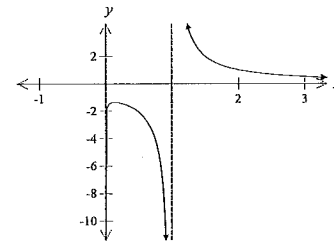


4 The diagram shows the graph of the function  $y = f(x)$ .

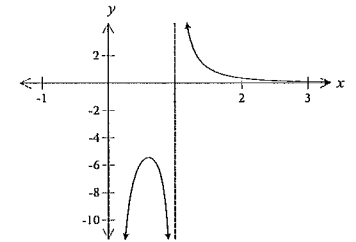


Which of the following is the graph of  $y = \frac{1}{f(x)}$ ?

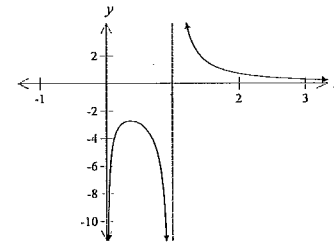
(A)



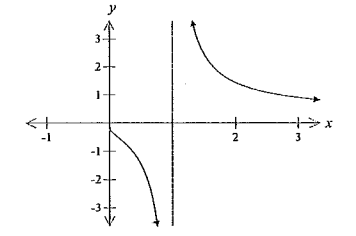
(B)



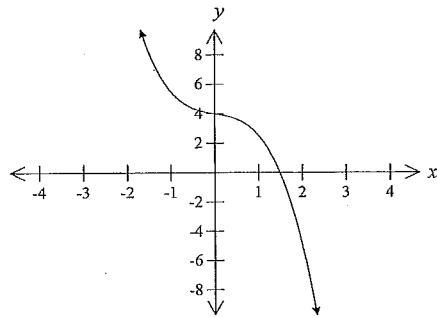
(C)



(D)

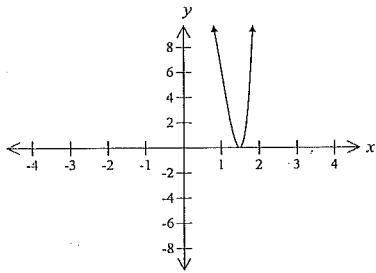


5 The diagram below shows the graph of the function  $y = f(x)$ .

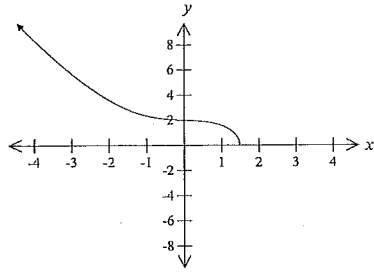


Which diagram represents the graph of  $y^2 = f(x)$ ?

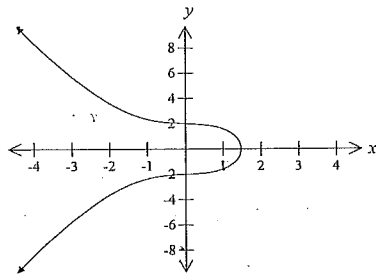
(A)



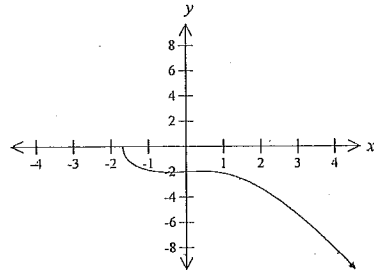
(B)



(C)

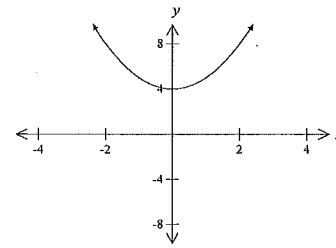


(D)

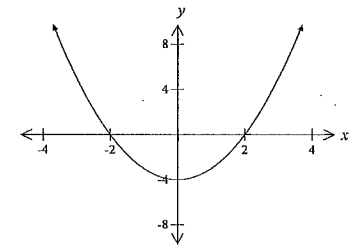


6 What is the graph of  $y = |f(x)|$  given that  $f(x) = 4 - x^2$ ?

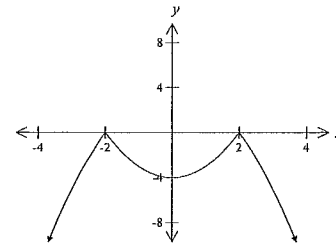
(A)



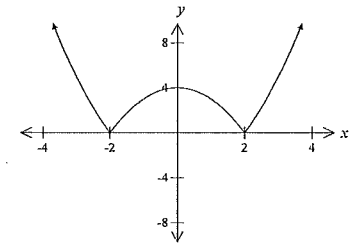
(B)



(C)

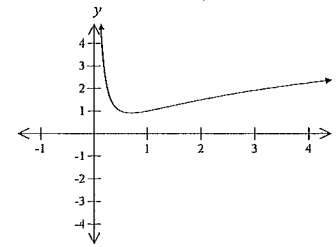


(D)

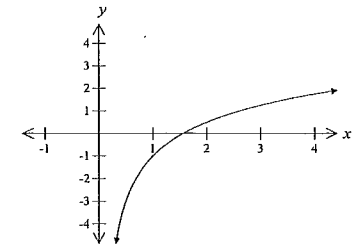


7 Which of the following is the sketch of  $y = \log_2 x + \frac{1}{x}$ ?

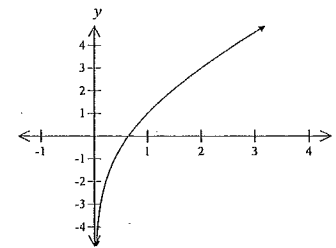
(A)



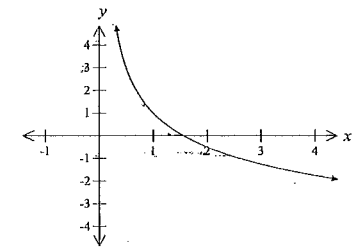
(B)



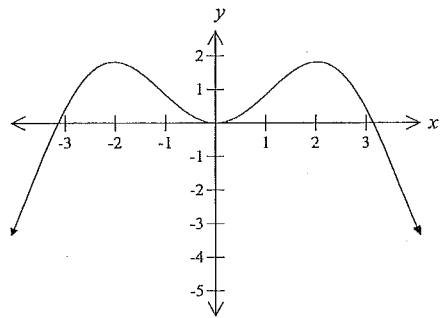
(C)



(D)

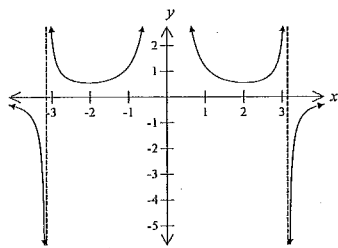


8 The diagram shows the graph of the function  $y = f(x)$ .

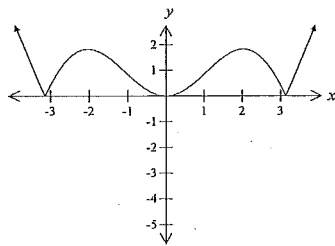


Which of the following is the graph of  $y = |f(x)|$ ?

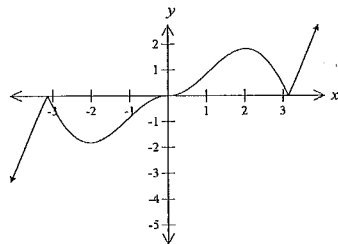
(A)



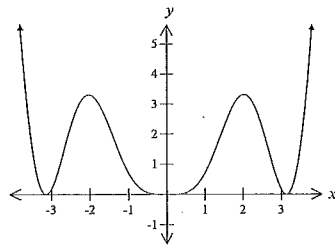
(B)



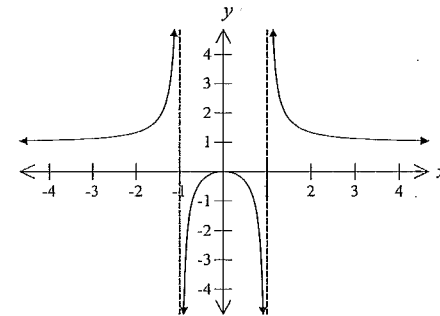
(C)



(D)

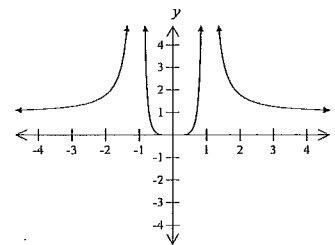


9 The diagram shows the graph of the function  $y = f(x)$ .

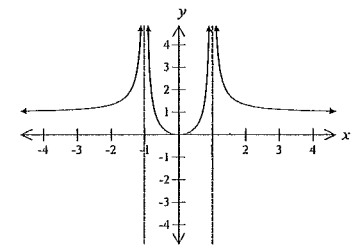


Which of the following is the graph of  $y = \sqrt{f(x)}$ ?

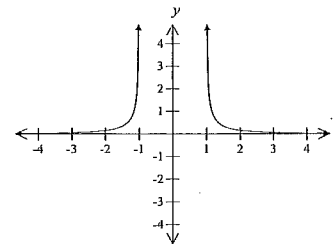
(A)



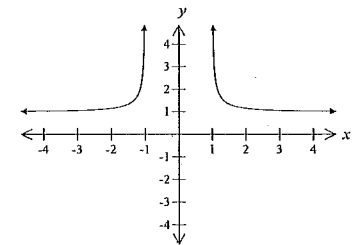
(B)



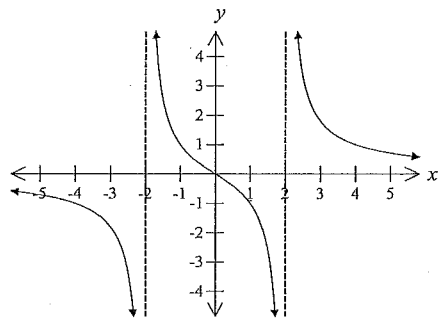
(C)



(D)

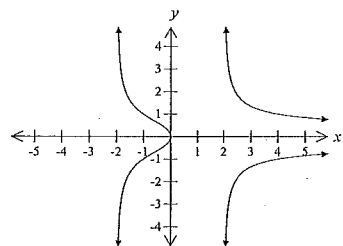


10 The diagram shows the graph of the function  $y = f(x)$ .

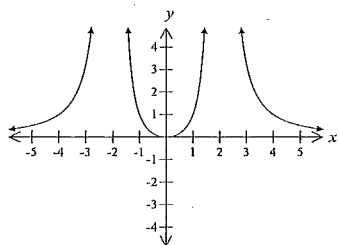


Which of the following is the graph of  $y^2 = f(x)$ ?

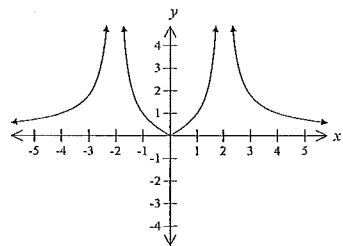
(A)



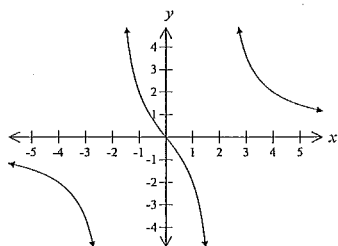
(B)



(C)



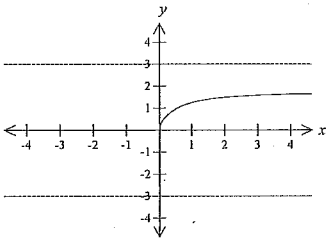
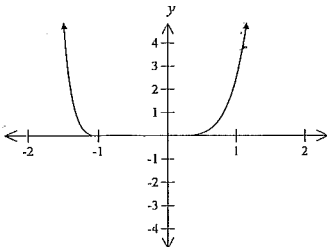
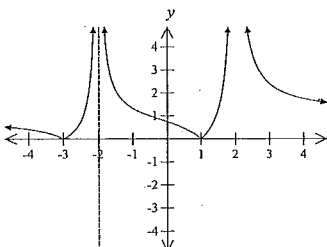
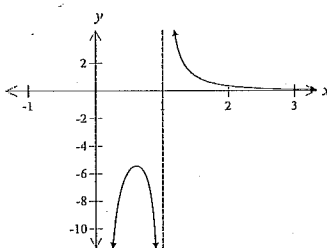
(D)

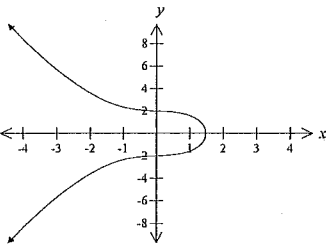
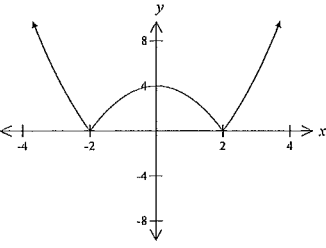
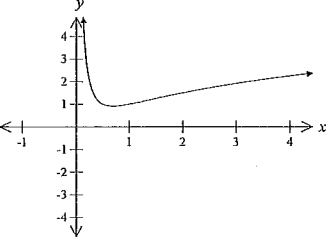
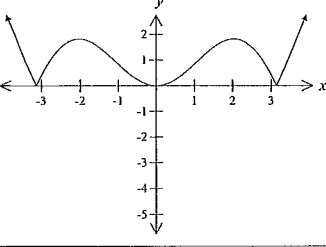
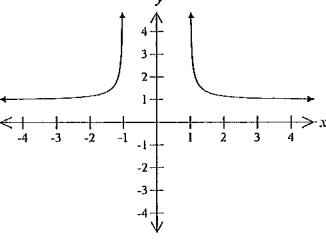


Objective Response Bank

Year 12 Mathematics Extension 2

Worked solutions

Graphs		Main Menu
	Solution	Criteria
1		1 Mark: C
2		1 Mark: D
3		1 Mark: B
4		1 Mark: B

5		1 Mark: C
6		1 Mark: D
7		1 Mark: A
8		1 Mark: B
9		1 Mark: D

