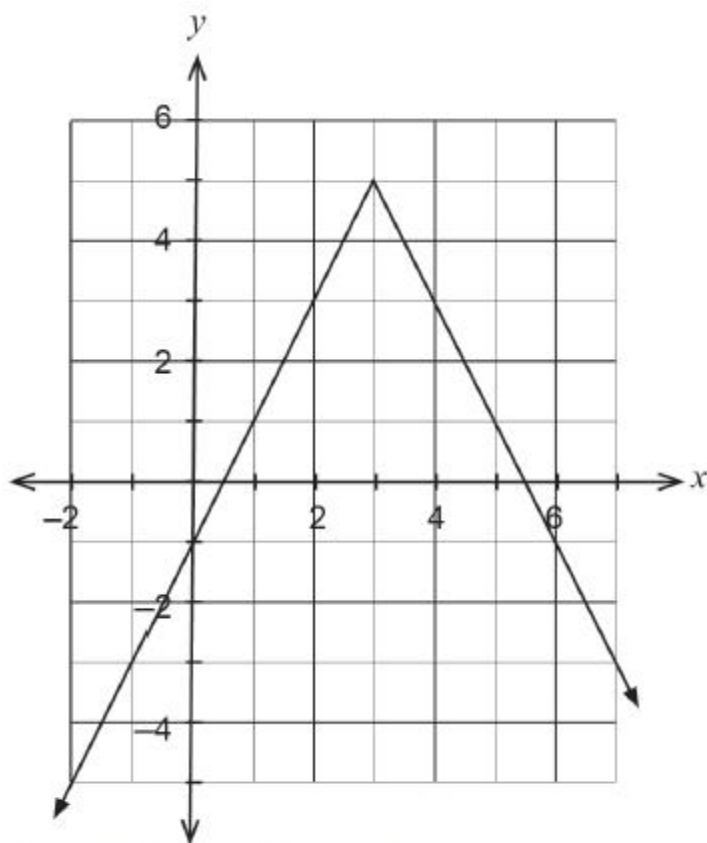


Question 12**(6 marks)**

The graph of $f(x) = a|x - b| + c$ is shown below.



- (a) Determine the values for the constants a , b and c .

(3 marks)

Consider the equation $|f(x)| = d$.

- (b) If the equation $|f(x)| = d$ has exactly four solutions, state the possible value(s) for the constant d . Explain. (3 marks)