

# Download File PDF Mathematics Quiz Competition Sample Questions And Answers

#Jenny



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#Markus Jensen



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

- (1) If  $ab + bc + ca = 0$ , then the value of  $\frac{1}{a^2 - bc} + \frac{1}{b^2 - ac} + \frac{1}{c^2 - ab}$  is  
(a) -1 (b) 0 (c) 1 (d) 2
- (2) If the equation  $2x^2 - 7x + 12 = 0$  has two roots  $\alpha$  and  $\beta$  then the value of  $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$  is  
(a)  $\frac{1}{24}$  (b)  $\frac{7}{24}$  (c)  $\frac{97}{24}$  (d)  $\frac{7}{2}$
- (3) Find the value of  $x$  for which the expression  $2 - 3x - 4x^2$  has the greatest value.  
(a)  $\frac{3}{8}$  (b)  $-\frac{3}{8}$  (c)  $\frac{41}{16}$  (d)  $-\frac{41}{16}$
- (4) The expression  $x^2 - 2x^2 + k$  will be a perfect square if the value of  $k$  is  
(a) 0 (b)  $\frac{1}{4}$  (c)  $\frac{1}{2}$  (d) 1
- (5) If  $(x-1)$  and  $(x+3)$  are the factors of  $x^2 + k_1x + k_2$ , then  
(a)  $k_1 = 2, k_2 = -3$  (b)  $k_1 = 2, k_2 = 3$   
(c)  $k_1 = -2, k_2 = 3$  (d)  $k_1 = -2, k_2 = -3$
- (6) If  $\frac{5x}{2x^2 + 5x + 1} = \frac{1}{3}$ , then the value of  $\left(x + \frac{1}{2x}\right)$  is  
(a) 10 (b) 20 (c) 5 (d) 15

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