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#Jenny



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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 α and β 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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