1 The number of x-intercepts for a quadratic function with the discriminant greater than zero is...



2 Describe the nature of the roots given the following quadratic...

$$y = -4x^2 - 12x - 5$$

- A 2 non-real & unequal roots
- B 1 real root
- C 2 real, irrational and unequal roots
- D 2 real, rational and unequal roots



3 The discrimant of a quadratic function is negative. The graph that could represent the function is...



4 In the equation $y = 2x^2 - 4kx + 6$, a possible value of k that will produce 2 real and equal roots is... D = O



$$A - \sqrt{3}$$

$$B - 1$$

$$C - 2\sqrt{3}$$

$$D - 2$$

$$(4k)^{-} + (2x_{0}) = 0$$

 $16k^{2} - x_{0} = 0$
 $\frac{16k^{2} = x_{0}}{76}$
 $\sqrt{k^{2}} = \frac{x_{0}}{76}$
 $\sqrt{k^{2}} = \frac{3}{76}$
 $\sqrt{k^{2}} = \frac{3}{76}$

Review Unit 1 - Quadratics



PART #2

Solving Quadratic Equations by: Factoring Completing the Square Quadratic Formula Applied Word Problems Nature of the Roots Discriminant Complex Numbers

$$\begin{array}{c} (\chi - 8)(\chi + 5) = 0 \\ (\chi - 8)(\chi + 5) = 0 \\ \chi - 8 = 0 \\ \chi = 8 \\ \chi = -5 \end{array}$$

$$\chi = -5 \ \xi \ \chi = \frac{3}{9}$$

$$\chi + 5 = 0 \quad 4\chi = 3$$

$$4\chi - 3 = 0$$

$$(\chi + s)(4\chi - 3) = 0$$

$$4\chi^{2} - 3\chi + 20\chi - 15 = 0$$

$$4\chi^{2} + 17\chi - 15 = 0$$



REVIEW TIME!!!

Review - Quadratics.doc

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