



Act Practice This Week

Lisa Zimmer Hatch, Scott A. Hatch

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web the quadratic formula in terms of the discriminant is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ example find the discriminant of the quadratic equation $2x^2 - 3x + 8 = 0$ comparing the equation with $ax^2 + bx + c = 0$ we get $a = 2$, $b = -3$ and $c = 8$ so the discriminant is Δ or $b^2 - 4ac = (-3)^2 - 4(2)(8) = 9 - 64 = -55$ discriminant of cubic equation

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we are taking the square root of a positive number we will have a positive and negative real solution this equation will have two real solutions or $x \times x$ intercepts

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web sep 20 2014 i will illustrate this with some examples when an acid is neutralised by an alkali the reaction is exothermic

eg 1 $\text{HCl (aq)} + \text{NaOH (aq)} \rightarrow \text{NaCl (aq)} + \text{H}_2\text{O (l)}$ for which $\Delta H = -57 \text{ kJ mol}^{-1}$ eg 2 $\text{HNO}_3 \text{ (aq)} + \text{KOH (aq)} \rightarrow \text{KNO}_3 \text{ (aq)} + \text{H}_2\text{O (l)}$ for which $\Delta H = -57 \text{ kJ mol}^{-1}$

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web the enthalpy change of neutralisation is defined as the enthalpy change when solutions of an acid and alkali react together to produce one mole of water for example $\text{HCl (aq)} + \text{NaOH (aq)} \rightarrow \text{NaCl (aq)} + \text{H}_2\text{O (aq)}$ you can see that one mole of water is produced when one mole of HCl or one mole of NaOH reacts