AS Maths Key Skills Check 3

Name: ______

1. Express $\sqrt{\frac{1}{16x^5}}$ in the form ax^b where <i>a</i> and <i>b</i> are constants to be determined	
2. Find, in ascending powers of <i>x</i> , the first four terms in the expansion of $(3-2x)^9$.	
 3. The points A and B have position vectors 7i + 2j and 2i - 5j respectively. (a) Find AB (b) Find AB 	
4. Solve the equation $3e^{x} + 2e^{-x} = 7$. Give your answers in the form $\ln k$	