

**Practical and homework for lecture #3:**

1.) What is the resolution of the following reflections: [1;0;0], [0;1;0], [0;0;1], [2;0;0], [75;0;0], [1;1;0], [2;0;3], [154;215;0], [32;65;72] from a unit cell with parameters:  $a=456 \text{ \AA}$ ,  $b=213 \text{ \AA}$ ,  $c=254 \text{ \AA}$ ,  $\alpha=\beta=\gamma=90^\circ$ . Does the resolution of the reflections depend on the wavelength used for the diffraction? If yes, what happens if the wavelength is decreased to 1/2?