**Formula Sheet**

**1. Kinematics & Dynamics**

A vector equation in 2D is actually two separate equations – one for each perpendicular axis. You get to choose (or may be told) which axes to use, and which direction is positive for each axis 😊**.**

 (2.1)

 (2.2)



 (3.1)

 (3.2)

 (3.3)

 (4.1)

 (5.1)

 (5.2)

 (5.3)

 (5.4)

 (5.5)

 (5.6)

 (5.7)

 (6.1)

 (6.2)

 (6.3)

 (6.4)

 (6.5)

 (6.6)

 (7.1)

 (7.2)



 (7.4)

 (7.5)

 (8.1)

 (8.2)

 (8.3)

 (8.4)

**2. Mathematical Formulae**

 (M.1)

 (M.2)

 (M.3)

**3. Fundamental constants and physical properties: usually given in the question, or in Urone, or ask invigilator**

…and also: 