Answers Exam 1 2013

1. $\vec{C} = (B\sin\theta - A)\,\vec{i} + B\cos\theta\,\vec{j}$

2. $x(t^*) = \frac{1}{6}\frac{c_1^3}{c_2^2} + A$

3. $t > t_0 \quad x(t) = k\cos\theta\, t_0 t - \frac{1}{2}k\cos\theta\, t_0^2 + A$

4. $x_1(t^*) = \frac{\alpha t^{*3}}{6} + C$

   $y_1(t^*) = \frac{\beta t^{*4}}{12} + D$