**FIGURE CAPTIONS**

**Figure 1:** Explicit solution of the KDV equation (initial condition 1) after 2000 time steps (200 seconds).

**Figure 2:** Explicit solution of the KDV equation (initial condition 2) after 2000 time steps (200 seconds).

**Figure 3:** Implicit solution of the KDV equation (initial condition 1) after 2000 time steps (200 seconds).

**Figure 4:** Implicit solution of the KDV equation (initial condition 2) after 2000 time steps (200 seconds).

**Figure 5:** Adomian decomposition solution of the KDV equation (initial condition 1) after 2000 time steps (200 seconds).

**Figure 6:** Adomian decomposition solution of the KDV equation (initial condition 2) after 2000 time steps (200 seconds).

**Figure 7:** Results for initial condition 1 with x = 14, 0 ≤ t ≤ 1 using the Analytic, Explicit, Implicit and Adomian methods.

**Figure 8:** Results for initial condition 1 with x = 44, 0 ≤ t ≤ 1 using the Analytic, Explicit, Implicit and Adomian methods

**Figure 9:** Results for initial condition 2 with x = 14, 0 ≤ t ≤ 1 using the Analytic, Explicit, Implicit and Adomian methods.

**Figure 10:** Results for initial condition 2 with x = 44, 0 ≤ t ≤ 1 using the Analytic, Explicit, Implicit and Adomian methods

**TABLE CAPTIONS**

**Table 1:** Results from initial condition 1 for $∆x=0.4$ and$ ∆t=0.1$ after 10 time steps for comparison.

**Table 2:** Results from initial condition 2 for $∆x=0.4$ and$ ∆t=0.1$ after 10 time steps for comparison.