$$P(4.82) = 1.18 x^2 - 5.82 x + 1.93$$

$$\chi^2 = 4.82 \cdot 4.82 \approx 23.2 \quad (3sf)$$

$$1.18-23.2 \approx 27.4 \quad (3sf)$$

(2) 
$$P_0 = 3$$
  $P_1 = 2$   $f(x) = x^3 - x - 9$   $10^{-1} = 0.1$ 

Heland 
$$P_{m+1} = P_m - \frac{P_m - P_{m-1}}{4(P_m) - 4(P_m - 1)} + (P_m)$$

$$P_2 = P_1 - \frac{P_1 - P_0}{4(P_1)^2 - 4(P_0)} + (P_1) = 2 - \frac{2 - 3}{-3 - 15} (-3) = 2.1667$$

$$\text{diff} = 0.1667$$

$$\frac{1}{4(P_0)}4(P_1)=2-\frac{2}{-3-15}(-3)=\frac{2.166+}{1}$$

$$-4(P_0) \qquad -3-75 \qquad diff = 0$$

$$P_{3} = P_{2} - \frac{P_{2} - P_{1}}{4(P_{2}) - 4(P_{1})} 4(P_{2}) = 2.1667 - \frac{0.1667}{-0.9949 - (-3)} \cdot (-0.9949) = 2.2494$$
diff 0.0827 con

$$f(P_2) < 0$$
  $f(P_3) > 0$  [2.1667, 2.2494]

(3) 
$$\frac{dy}{dt} = \frac{t}{y} - 1$$
  $w_0 = y(0) = \frac{3}{5}$   $h = 0.25$   $t_0 = 0$   $t_m = 0.5$  2 rdeps

$$W_{i+1} = W_i + \frac{1}{4}k_{i1} + \frac{3}{4}k_{i2}$$

$$k_{01} = 0.25 \cdot 4(t_{01} w_0) = 0.25 \cdot 4(0, \frac{3}{5}) = -0.25$$

$$k_{02} = 0.25 \cdot 4(0 + \frac{2}{3}0.25, \frac{2}{5} + \frac{2}{3}(-0.25)) = 0.25 \cdot 4(0.1667, 0.4333) = -0.1538$$

$$w_{1} = \frac{2}{5} + \frac{4}{5}(-0.25) + \frac{3}{5}(-0.1538) = 0.4222$$

 $k_0 = 0.25 \cdot 1_{(0.25+2.0.25+0.6222+2(-0.4020))} = 0.25 \cdot 1_{(0.442-0.3542)} = 0.0641$ 

 $W_2 = W_1 + \frac{1}{5}k_{11} + \frac{3}{5}k_{12} = 0.4222 + \frac{9}{5}(-0.1020) + \frac{3}{5}(0.0941) = 0.4298$ 

abs. vvo7 = 0.026

