b) $3x^2 - 7x + 4 = (x-1)(ax+b)$

$3x^2 - 7x + 4 = ax^2 + bx - ax - b$

$3x^2 - 7x + 4 = ax^2 + (b-a)x - b$

for both expression to be equal (identical)

Coefficient of x^2: $3 = a$

of x: $(b-a) = -7$

$b - 3 = -7$

$b = -4$

Constant: $4 = -b$

$b = -4$

$$\boxed{\begin{array}{l} a = 3 \\ b = -4 \end{array}}$$

(4m)

c) $DI = \frac{1}{3}$

$\frac{2x - x^2}{4 - x} = \frac{1}{3}$

$3(2x - x^2) = 4 - x$

$6x - 3x^2 = 4 - x$

$6x + x - 3x^2 - 4 = 0$

$7x - 3x^2 - 4 = 0$

$-3x^2 + 4x + 3x - 4 = 0$

$-3x(x-1) + 4(x-1) = 0$

$(x-1)(-3x+4) = 0$

(4m)

$x = 1$ or $x = \frac{4}{3}$

accepted rejected

$0 < x < 2$

(1m)

P.11.