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Matic: 16/EN071028

Dept: PETROLEUM ENG.

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Assignment 7

1. $X_{p(1)} = 6m$

$C = 2.2 m^3/hr$

$t_f = 0.3$

$m = 20$

$n = 15$

$\Delta x = 0.3$

$\Delta t = 0.02$

$r = 0.488889$

$$r = 2.2 \times \left(\frac{0.02}{(0.3)^2} \right) = 0.488889$$

$x_i =$	0	1	2	3	4	5	6	7	8	
$t =$		0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	
0	0	0	0.27	1.08	2.43	4.32	6.75	9.72	13.23	17.28
1	0.02	0	0.534	1.344	2.694	4.584	7.014	9.984	13.494	17.544
2	0.04	0	0.668933	1.608	2.938	4.848	7.278	10.248	13.758	17.808

9	10	11	12	13	14
2.7	3	3.3	3.6	3.9	4.2
21.87	27	32.67	38.88	45.63	52.72
22.134	27.264	32.934	39.144	45.894	53.184
22.398	27.528	33.198	39.408	46.158	53.448

15	16	17	18	19	20
4.5	4.8	5.1	5.4	5.7	6
60.75	69.12	78.03	87.48	97.47	108
61.014	69.384	78.294	87.744	97.734	108
61.278	69.648	78.558	88.008	97.86893	108