

**Problem 15**

**Rainfall Excess Prediction for NB Ralston Creek Using SCS Method (July 1972)**

[a] 1 pt

$$\Sigma P = \boxed{4.10} \text{ in}$$

Time (hr)	[b] 1 pt $\Sigma P$ (in)	[c] 3 pts $P_e$ (in)
12	0.00	0.00
13	0.32	0.00
14	1.04	0.13
15	2.61	0.96
16	3.83	0.97
17	4.06	0.20
18	4.08	0.02
19	4.09	0.01
20	4.09	0.00
21	4.10	0.00

[d] 1 pt

$$\Sigma(Ia+Fa) = \boxed{1.81} \text{ in}$$

[e] 2 pts

$$r_d = \boxed{2.29} \text{ in}$$

[f] 1 pt

$$V_d = \boxed{367.13} \text{ ac-ft}$$

[g] 1 pt

$$t_r = \boxed{6} \text{ hr}$$

[h] 1 pt

$$C = \boxed{0.5581}$$