51EP 1

Target

Info (Target) =  $I(3,9) = -\frac{3}{8}\log_2(\frac{3}{8}) - \frac{5}{8}\log_2(\frac{5}{6}) = 0.954$ 5169 2 Info, (Target) = 4 I(2,2) + 4 I(1,3) = 0.5 + 0.379

In fo (Target) = 5 I(2,3) + 3 I(1,2) - 0.644 + 0.328 = 0.972

= 18.879

Gain (f1) = 6.954 - 0.879 = 0.075 (1201) Poot node Gain(fz) = 0.954-0.972 = -0.018