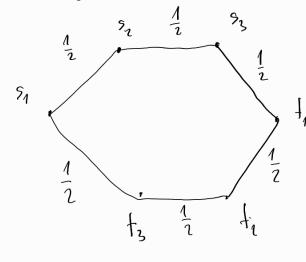
Show that the integrality gap of the IP for Steiner borest is ≈ 2 .

·uril eges



 $\frac{s_{2}}{s_{3}}$ $\frac{1}{s_{3}}$ $\frac{1}{s_{4}}$ $\frac{1}{s_{4}}$

>> 5 3

· if we generalize, the gap is

$$\frac{3+2c}{2+c} = 1 + \frac{1+c}{2+c}$$

· 2 with c->0

LP

Feedback Vertex Set (Section 7.7 in the book)