Top *1 higher degree* than bottom: SA, divide, ignore r

Plug in 0 for x

Set the *top* of the fraction = 0

**Step 6**: Find the y-intercept

**Step 5:** Find the x-intercept(s)

*Top heavy degree*: No HA, maybe slant

*Equal degree:*

y = LC/LC

*Bottom heavy degree*: y = 0

**Rational Functions**

Polynomial

Polynomial

Set the *bottom* of the fraction = 0

x-coordinate: zero of canceled terms

y-coordinate: plug in x into remaining function

If a factor cancels out, it creates a removable disconuity or hole

After this point, just use the remaining function

**Step 2**: Look for any factors that cancel out

**Step 4:** Find the horizontal asymptote

**Step 3**: Find the vertical asymptote(s)

**Step 1**: FACTOR