

$$\frac{6}{-2 \times -3}$$

$$(\underline{2x-4})(\underline{2x+4}) = 4(x-2)(x+2)$$

Given $\frac{4x^2-16}{x^2-5x+6} = \frac{4(x^2-4)}{(x-2)(x-3)} = \frac{4(\overset{\text{hole at } 2}{\cancel{x-2}})(x+2)}{(\cancel{x-2})(x-3)}$

- a) Domain $(-\infty, 2) \cup (2, 3) \cup (3, \infty)$
- b) V.A (holes if any) ~~$x=2$~~ $x=3$
- c) H.A $y=4$
- d) x-int $N=0$ ~~$x=2$~~ $x=-2$
- e) y-int $x=0 \rightarrow y=-\frac{8}{3}$
- f) sketch.

