

REVIEW OF PRECALC REVIEW

Simplify.

$$\frac{2x^3 + 7x^2 - 7x - 30}{x^2 + 8x + 15}$$

$$\frac{(x-2)(2x+5)(\cancel{x+3})}{(\cancel{x+3})(x+5)}$$

Hole at $x = -3$

$\pm 1 \pm 30$
 $\pm 2 \pm 15$
 $\pm 3 \pm 10$
 $\pm 5 \pm 6$

$x=2$

$$\begin{array}{r} 2 \overline{) 2 \quad 7 \quad -7 \quad -30} \\ \underline{+ \quad 4 \quad 22 \quad 30} \\ 2 \quad 11 \quad 15 \quad 0 \end{array}$$

$$(x-2)(2x^2 + 11x + 15)$$

$$(2x+5)(x+3)$$