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Bellwork Alg 2

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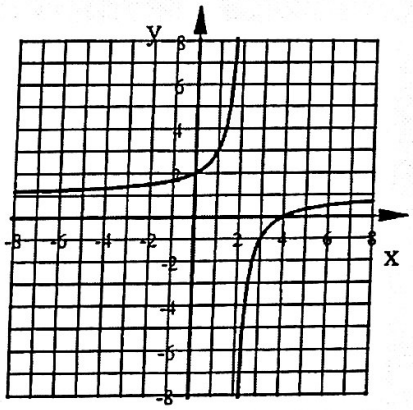
1. Simplify. State restrictions on the variable. $\frac{4x^2+8x-60}{x^3+6x^2+5x} \div \frac{12x^2-108}{2x^3+10x^2+8x}$

2. Find all points of discontinuity: $\frac{7x^2+3x-11}{20x^2-7x-3}$

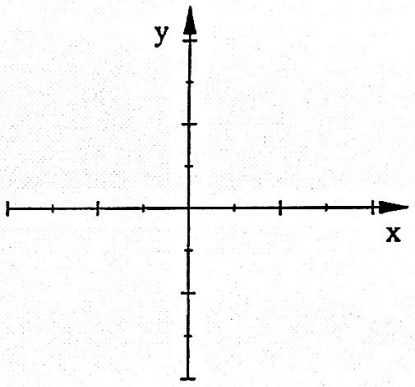
3. Write the equation of the graph below which is a transformation of $y = \frac{2}{x}$

$y =$



4. Graph this function, showing asymptotes as dashed lines. State the equations of the asymptotes. $y = \frac{0.1}{x+4} - 3$

HA: VA:



5. For the given rational functions state the equations of the HA and VA, if any. State the Holes, x-intercepts and y-intercepts, if any.

a) $y = \frac{8x^2-128}{3x^2+12x-96}$

Eq HA: Eq VA:

Holes: x-int:

y-int:

b) $y = \frac{x^3+6x^2-9x-54}{8x^2+6x}$

Eq HA: Eq VA:

Holes: x-int:

y-int