

Identify the points of discontinuity, holes, vertical asymptotes, x-intercepts, and horizontal asymptote of each.

1) $f(x) = \frac{1}{3x^2 + 3x - 18}$

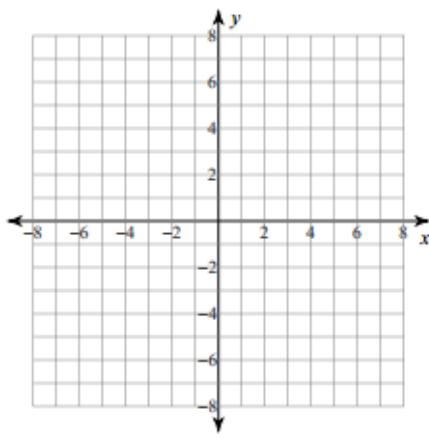
2) $f(x) = \frac{x - 2}{x - 4}$

3) $f(x) = \frac{x^3 - x^2 - 6x}{-3x^2 - 3x + 18}$

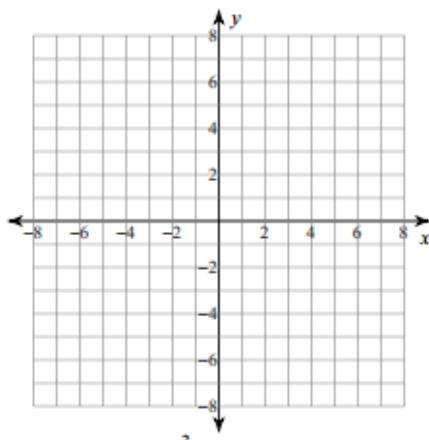
4) $f(x) = \frac{x^2 + x - 6}{-4x^2 - 16x - 12}$

Identify the points of discontinuity, holes, vertical asymptotes, and horizontal asymptote of each. Then sketch the graph.

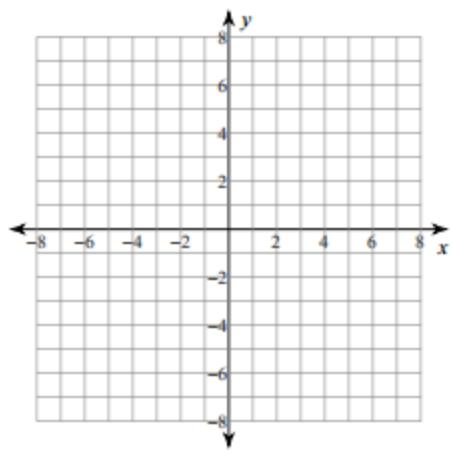
5) $f(x) = -\frac{4}{x^2 - 3x}$



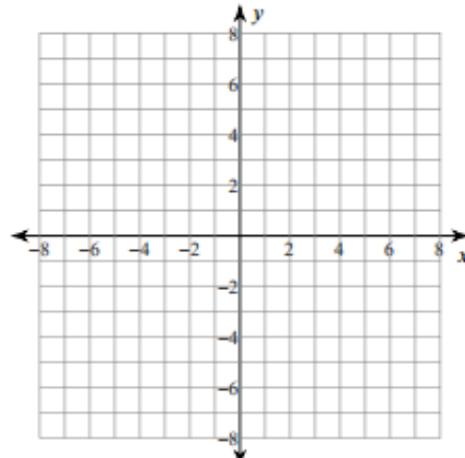
6) $f(x) = \frac{x - 4}{-4x - 16}$



7) $f(x) = \frac{x + 4}{-2x - 6}$



8) $f(x) = \frac{2x^2 + 10x + 12}{x^2 + 3x + 2}$



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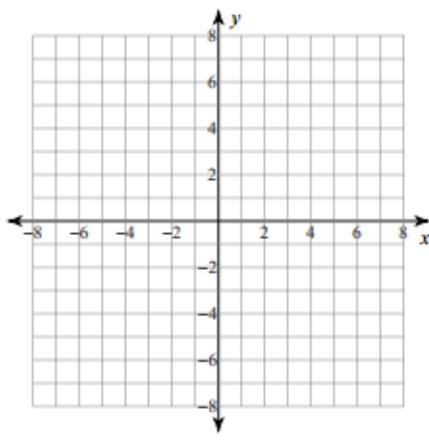
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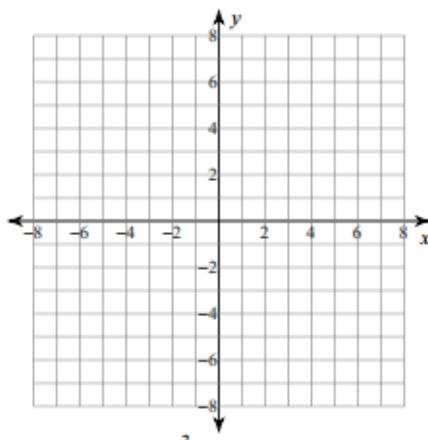
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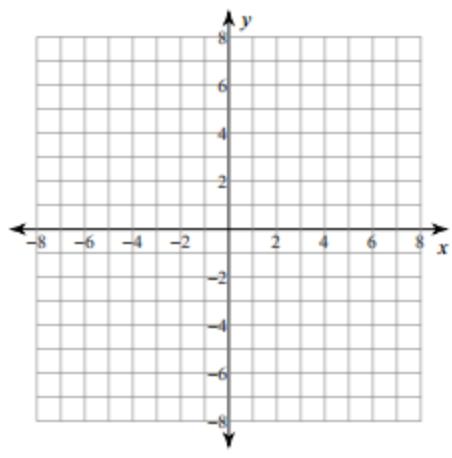
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