1. $f(x) = x^2 - 9$

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2. $f(x) = x^2 - 8x + 12$

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3. $f(x) = \frac{2x+3}{x+5}$

$g(x) = x^5 - 16x^3$

When is $f(x) > g(x)$?

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4. $f(x) = \frac{1}{2x^2-x-6}$

$g(x) = -2x^5 + 6x^3 + x^2 - 3$

When is $f(x) < g(x)$?