$$g(x) = \frac{7}{(x+5)(x-3)}$$

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$$h(x) = \frac{5-x}{(x+1)(x-6)}$$

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$$p(x) = \frac{(x-2)^2}{(x+2)(x-4)}$$

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$$q(x) = \begin{cases} (6-x)(x+1) & \text{if } x < 7 \\ \dfrac{8}{x-8} & \text{if } x \geq 7 \end{cases}$$

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$$r(x) = \frac{x-3}{(x+1)^2(x-6)^2}$$

$$r(x) = \frac{x-3}{(x+1)^2(x-6)^2}$$

$$s(x) = x - 3 + \frac{25 - 11x}{x^2 - 3x + 5}$$

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