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12) Find antiformative.

$$g(x) = \frac{5-4x^3+2x^6}{x^6} = 5x^{-6}-4x^{-3}+2$$
 $G(x) = -x^5+2x^2+2x+C$

4.0) Find f if $f''(t) = \frac{3}{x^6}$, $f(y) = 20$, $f'(y) = 7$.

 $f''(t) = 3t^{-1/2}$, so $f'(t) = 6t^{-1/2} + C$
 $7 = 6\cdot 4^{-1/6} + C$, so

 $-5 = C$
 $f(4) = \frac{12}{3}t^{-3/2} - 5t + D$
 $= 4t^{-3/2} - 5t + D$
 $= 5t^{-3/2} - 5t + D$
 $= 5t^{-3/2$

X=-10 is where line is fargulf. Hence

 $1 = \frac{1}{4} + \frac{1}{5}$ $50 = \frac{3}{4}$ $f(x) = \frac{x^{7} + 3}{1}$