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4

$$r(x) \cdot x(a+1) = wa - e + a \rightarrow 18a + 18 = 8a - e \rightarrow 10a = -18 \rightarrow a = -1.8$$

5486

2

$$x \geq 1 \rightarrow \int_{x-1}^x \frac{1}{x} dx \rightarrow x-1 \geq 0 \rightarrow x \geq 1$$

5

$$a + b = \frac{1}{x} + \frac{1}{y} = \frac{y+x}{xy} \rightarrow a + b = \frac{y+x}{xy} \rightarrow \frac{1}{a+b} = \frac{xy}{y+x}$$

1

$$x^2 - x - 1 > 0 \rightarrow x = \frac{1 \pm \sqrt{5}}{2} \rightarrow x > \frac{1 + \sqrt{5}}{2}$$

1

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1

$$f(x) = \frac{x(x-1)}{(x+1)^2} \rightarrow f'(x) = \frac{(x+1)^2 - 2x(x+1)}{(x+1)^4} = \frac{x+1-2x}{(x+1)^3} = \frac{1-x}{(x+1)^3}$$