

$$f(x) = r^x \Rightarrow x = r^{A+B} \Rightarrow A+B < 0 \Rightarrow A < -B$$

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$$r = r^B \Rightarrow B = -1, A = 1 \Rightarrow f(x) = r^{x+(-1)}$$

$$x=0 \rightarrow f(x) = r^{-1} = \frac{1}{r}$$

$$c = 1$$

$$\left(0, \frac{1}{r}\right)$$

$$\log_r(x^2 + 10) = x + 1 \Rightarrow r^{x^2 + 10} = r^{x+1} \Rightarrow r^{x^2} = r^{x+1-10} \Rightarrow r^{x^2} = r^{x-9}$$

$$x^2 = x - 9 \Rightarrow x^2 - x + 9 = 0 \Rightarrow (x-5)(x-4) < 0 \Rightarrow r = 5, r = 4$$

$$x_1 = \log_r 5, x_2 = \log_r 4 \Rightarrow x_1 + x_2 = \log_r 5 + \log_r 4 = \log_r 20$$

$$\log_r(x+y) \times \log_r(10-r^x) = \log_r(x^2) \times \log_r(r^x + 10)$$

$$\log_r^v(x+y) \times \log_r^{10-r^x} = \log_r^x(x^2) \times \log_r^{r^x+10}$$

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$$\log_{10}(x^2 - x + 1) + \log_{10}(1-x) = \log_{10}(x-1)^2 + \log_{10}(-(x-1))^2$$

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