

$$a = \sqrt{r + r\sqrt{d}}$$

$$x^2 - 11x + 10 = 0 \Rightarrow x = 10 \text{ oder } x = 1$$

$$\frac{-r \sqrt{r-n}}{r+n} = \frac{\sqrt{r-n}}{s} \rightarrow n = -12$$

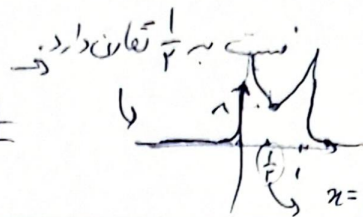
✓ ارثی مثبت ندارد

$$\left(\frac{1}{x} + \frac{1}{1-x}\right)^r = \frac{1}{x^r} + \frac{1}{(1-x)^r}$$

$$t = \frac{1}{x^r} + \frac{1}{(1-x)^r}$$

$$\rightarrow x=1-x \rightarrow$$

$$\frac{1}{(1-x)^r} + \frac{1}{(-x)^r} = t$$

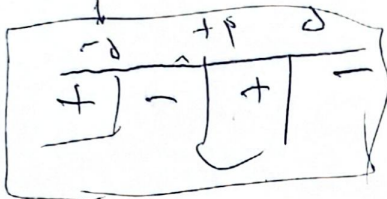


$$\frac{1}{p} x F = \frac{r}{p}$$

(r)

$$\Phi \approx \sqrt{-x^r + r x^{r-1} + 0 x - 1} \geq 0$$

$$t = (x+r)(\frac{1}{x^r} + \frac{1}{(1-x)^r})$$

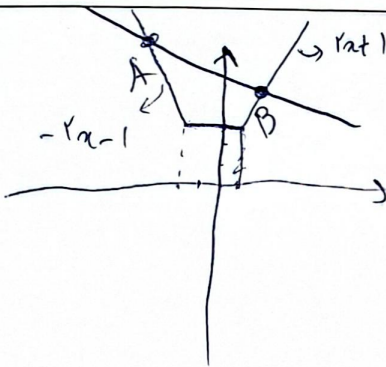


$$x+r > 0 \rightarrow x \geq -r$$

$$-x^r + r x^{r-1} - 1 > 0 \rightarrow r \leq x \leq r$$



(r)



$$y = -x^r + r x^{r-1} - 1 \rightarrow x = r \rightarrow y = -r^r + r^r - 1 = -1$$

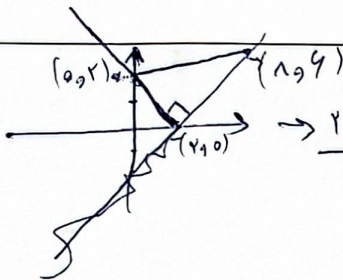
$$\rightarrow -r^r - 1 \rightarrow x = r \rightarrow y = -r^r - 1$$

$$= \sqrt{10}$$

(r)

$$y = x - r$$

$$y = \frac{1}{r} x + r$$



$$\frac{1}{r} x + r = x - r \rightarrow \frac{1}{r} x = x - 2r \rightarrow x = \frac{2r^2}{1-r}$$

(r)

$$\frac{1}{B} + \frac{1}{F+9} = \frac{1}{10} \rightarrow \frac{F+B+9}{B(F+9)} = \frac{1}{10} \rightarrow B^2 - 10B - 10 = 0$$

$$B = F - 9 \rightarrow F = B + 9$$

$$B = 14$$

(r)