

$$\text{ext} \left| \begin{array}{l} x = \frac{k}{rk} = \frac{r}{k} \\ y = \frac{-(14 + rk)}{rk} = -\frac{r}{k} - 4 \end{array} \right.$$

$$\rightarrow \left| \begin{array}{l} \frac{r}{k} \\ -\frac{r}{k} - 4 \end{array} \right.$$

این نقطه روی خط
 $y = -kx - k$
 قرار دارد

-9

$$\rightarrow -\frac{r}{k} - 4 = -k\left(\frac{r}{k}\right) - k \rightarrow k < 2 \quad \text{D} \checkmark \quad y = -\frac{r}{k} - 4 = -1$$

$$-mx^2 + mx + 12 - x - m \rightarrow -mx^2 + (m+1)x + 1 + m = 0$$

-10

$$\rightarrow \Delta < 0 \rightarrow b^2 - 4ac < 0 \rightarrow \underbrace{(m+1)^2 - 4(-m)(m+1)}_{m^2 + 1 + 2m + 4m^2 + 4m = 5m^2 + 6m + 1} < 0 \rightarrow (5m+1)(m+1)$$

$$\rightarrow (5m+1)(m+1) < 0 \rightarrow -1 < m < -0.2 \rightarrow \text{عدد صحیحی در این بازه نیست}$$

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