

0.26
2

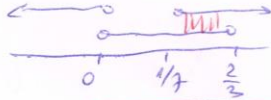
$$mx^2 + (m+1)x + m - 3 = 0$$

$$x^2 + \frac{m+1}{m}x + \frac{m-3}{m} = 0$$

$$f(2) > 0, \quad f(1) < 0$$

$$0 < f(2) = 4 + \frac{2m+2}{m} + \frac{m-3}{m} = \frac{7m-1}{m}$$

$$0 > f(1) = 1 + \frac{m+1}{m} + \frac{m-3}{m} = \frac{3m-2}{m}$$

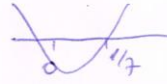


$$\boxed{\frac{1}{7} < m < \frac{2}{3}}$$

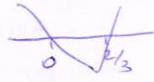
$$\alpha < 1 < \beta < 2$$



1 2 103



$$\boxed{\begin{matrix} m > \frac{1}{7} \\ m < 0 \end{matrix}}$$



$$0 < m < \frac{2}{3}$$

1 2 103 7 103