

1.156

$$X^2 + (m-1)|X| - m = 0$$

$$|X| = t$$

$$t^2 + (m-1)t - m = 0$$

-part 17

should not miss $m=0$ &

$$-\frac{b}{2a} > 0, \text{ root}, \Delta > 0$$

$$m^2 - 2m + 1 + m = 0$$

$$m^2 + m + 1 = 0$$

$$\frac{1-m}{2} > 0$$

$$+ \frac{1}{-1}$$

$$\boxed{m < 1}$$

$$\boxed{m = -1}$$

$$\boxed{m = -1}$$

$$\boxed{m > 0}$$

$$-m < 0$$

when root is not root
 $\frac{c}{a} < 0, (\Delta > 0)$

$$\boxed{m = -1, m > 0} \text{ root}$$

$$-\frac{b}{a} > 0$$

$$\frac{c}{a} = 0$$

$$\Delta > 0$$

no root

$$m > 1$$

$$m = 0$$

$$m \neq -1$$

$$\boxed{m = 0}$$

$$-\frac{b}{a} > 0$$

$$\frac{c}{a} > 0$$

$$\Delta > 0$$

no root & I

$$m > 1$$

$$m < 0$$

$$m \neq -1$$

$$\boxed{-1 \neq m < 0}$$