

19/10

② ✓

$\text{P} \rightarrow \text{Q}$

② ✓

② ✓

✓

11/12

② ✓

④ ✓

$$y = -mx^r + mx + 1$$

$$y = -m - x$$

$$-m \cdot x^r + m \cdot x + 1 = -m - x$$

$$-m \cdot x^r + (m+1)x + 1+m \rightarrow \Delta < 0 \rightarrow (m+1)^r - 4(-m)(1+m) \rightarrow m^r + 1 + 2m + 4m + 4m^r < 0$$

$$5m^r + 4m + 1 < 0$$

$$\Delta = 4 - 4(5)(1) = -16$$

$$x = \frac{-4 \pm \sqrt{-16}}{10} \rightarrow -1 \pm \frac{1}{5}$$

$$-1 < m < -\frac{1}{5}$$

$$\left| \frac{-4 \pm \sqrt{-16}}{10} \right|$$

⓪ ✓