

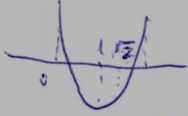
0.17
2

$$2m\sqrt{x} + 2\sqrt[4]{x} - m - 1 = 0$$

$$2mt^2 + 2t - m - 1 = 0 \quad | : 2m \neq 0$$

↓
-1/m + 2

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



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

$$\frac{+}{\frac{1-2\sqrt{2}}{3} \quad 0} \quad \boxed{\frac{1-2\sqrt{2}}{3} < m < 0}$$

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

$$0 < f(0) = -\frac{m+1}{2m} \quad \frac{+}{-1 \quad 0} \quad \boxed{-1 < m < 0}$$

$$\boxed{\frac{1-2\sqrt{2}}{3} < m < 0} \quad \text{absol}$$

$$x = t^4 \leftarrow \sqrt[4]{x} = t \quad \text{pos}$$

x of 1/m is not in the domain of f

$$t^4 = x > 4 \quad t \text{ is not in the domain}$$

$$t > \sqrt[4]{4} = \sqrt{2}$$

$$t^4 = x < 1 \rightarrow t < 1$$

$$t > \sqrt{2} \quad \text{not in the domain of } f$$
$$0 < t < 1$$