

$$\frac{A}{\cos \pi v} = \sqrt{r} \cos\left(\pi + \frac{\pi}{4}\right) \sin\left(\frac{r\pi}{r} - \pi v\right) - \sqrt{r} \sin\left(\frac{r\pi}{r}\right) \times \cos(\pi - \pi v)$$

$$= \frac{\cancel{r} \cos \pi v + \cos \pi v}{\cos \pi v} = \boxed{1, 0} \quad \text{cos } \pi v$$

$$f\left(\frac{\pi}{14}\right) \approx \frac{\cos^2\left(\frac{\pi}{14}\right)}{14} = \frac{1 + \cos\left(\frac{\pi}{7}\right)}{14} \rightarrow \cos \pi \theta = \frac{r + \sqrt{r}}{r}$$

$$\rightarrow 14 \times \frac{r + \sqrt{r}}{r} \times \frac{1}{14} \times \frac{r}{r} = \frac{r\sqrt{r} + r}{14} \quad \checkmark$$

$$1 - \sin \pi = r + r \sin \pi \rightarrow \sin \pi = \frac{-r}{r}$$

$$\Rightarrow \cos \pi = -\frac{r}{r} \rightarrow \tan \frac{\pi}{r} = \boxed{-r} \quad \checkmark$$

$$\frac{\sin \theta}{1 - \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = r \cot \frac{\theta}{r} \rightarrow r = r \quad \checkmark$$

$$\cos\left(\frac{r\pi}{r} + \pi\right) = -\sin\left(\pi + \frac{\pi}{r}\right) = \left(\frac{\sqrt{r}}{10} \times \frac{\sqrt{r}}{r} - \frac{v}{\sqrt{r}} \times \frac{\sqrt{r}}{r}\right)$$

$$= -\frac{1}{10} + \frac{v}{10} = \boxed{0/10} \quad \checkmark$$