

$$B = \boxed{12\mu^0} \neq 120 - 20V$$

باید، زود، کمترین از ۱۸۰ اعلام شود.

$$b) a = |8,0M - 10H| = \underbrace{|8,0 \times 10^6 - 10 \times 10^6|}_{20V} = 20V$$

$$\alpha = v_y - v \cdot v = 153$$

$$d = 4 \times 10 + 12 + 9 = 119$$

$$B = 240 - 21 = 219^\circ$$

$$\therefore d = |8.8M - 50H| = \underbrace{|8.8 \times 10|}_{99} - \underbrace{50 \times 7}_{100} = 1 \quad \checkmark$$

الف) $S = \frac{a}{r} R^2 = \frac{R}{\frac{9}{r}} \times \frac{r}{9} = \frac{9R}{18} = \frac{R}{2}$ ✓

$$\rightarrow P = \alpha R + \gamma R = \frac{R}{4} \times 4 + 4 \times 4 = \frac{R}{4} + 4 = \frac{R}{4} + \frac{16}{4} = \frac{R+16}{4}$$

الف) $S = \frac{1}{r} ab \sin \hat{A} = \frac{1}{1} \times 2 \times \frac{1}{2} \times \frac{\sqrt{2}}{2} = 10\sqrt{2}$

c.) $CB = \sigma^r + \tau^r - \sigma \times \tau \times \frac{1}{1\%} = 10 + 49 - 20 = 39$

ب $BC^2 = AB^2 + AC^2 - 2AB \cdot AC \cos 40^\circ$

$$P_{ABC} = \omega + \Lambda + V = K_0$$

$$\rightarrow BC' = r\omega + r\tau - r \times \omega \times 1 \times \frac{1}{r} = r\tau \rightarrow BC = v$$

$$\hat{B} + \hat{C} = 120^\circ \quad AC = 10\sqrt{r} \quad BC = 10$$

$$B = \frac{r}{r+1}$$

$$\hat{B} = 1 \quad \hat{C} = 1 \quad \hat{A} = 170 - 180 = -10^\circ$$

$$c) = \cancel{10} \times \frac{12}{\cancel{10}} = \boxed{\frac{12}{1}} \checkmark$$

$$\frac{10 \angle 13^\circ}{1} = \frac{10 \sqrt{2} \angle 45^\circ}{E}$$

$$\frac{\frac{1}{2} \times 10 \sqrt{2}}{10} = \frac{\sqrt{2}}{2}$$

$$\sin A, \sin B \Rightarrow B = 90^\circ \Rightarrow C = 180 - (90 + 90) = 100^\circ$$

$$\frac{\tan(\pi - \alpha) + \tan(\pi + \alpha)}{\tan(\pi - \alpha) - \tan(\pi + \alpha)} = \frac{-\tan \alpha + \tan \alpha}{-\tan \alpha - \tan \alpha} = \frac{0}{-2 \tan \alpha} = 0$$

$$\tan \frac{\pi}{14} = a = \tan 10^\circ$$

$$\frac{r + \tan 90^\circ + \tan 10^\circ}{r + \tan 140^\circ - \tan 20^\circ} = \frac{r + \tan(90-10) + \tan(90+10)}{r + \tan(180-10) - \tan(180-20)} = \frac{r \cot 10^\circ - \cot 10^\circ}{r \cot 10^\circ - \cot 10^\circ}$$

$$\frac{\sin x + \cos x}{\sin x - \cos x} + \frac{\sin x - \cos x}{\sin x + \cos x} = r \quad \frac{\sin^2 x + \cos^2 x + \sin^2 x + \cos^2 x}{\sin^2 x - \cos^2 x} = r$$

$$\Rightarrow \sin^2 x - \cos^2 x = \frac{1}{2} = \frac{1 - \cos^2 x}{1} - \frac{1 + \cos^2 x}{1} = \frac{-2\cos^2 x}{1} = -2\cos^2 x = \frac{1}{2}$$

$$\frac{\sin^2 x - r \cos^2 x + 1}{\sin^2 x + r \cos^2 x - 1} = r \quad \text{and} \quad \frac{1 - \cos^2 x - r \cos^2 x + 1}{1 - \cos^2 x + r \cos^2 x - 1} = \frac{r - r \cos^2 x}{\cos^2 x} = r$$

$$r \cos^2 x = r - r \cos^2 x$$

$$v \cos^r x = r \Rightarrow \cos^r x = \frac{r}{v} \quad \frac{1}{\cos^r x} = 1 + \tan^2 x \Rightarrow \frac{v}{r} = \frac{r}{r} + \frac{v}{r} \frac{1}{\cos^2 x}$$

$$\Rightarrow \tan^2 x = \boxed{\frac{5}{2}} \quad \checkmark$$

$$\cos(\pi/4) = \frac{1 + \cos 90^\circ}{2} = \frac{1 + \frac{\sqrt{2}}{2}}{2} = \frac{1}{2} + \frac{\sqrt{2}}{2} = \frac{1 + \sqrt{2}}{2}$$

$$\cos \varphi_{K/D} = \sqrt{\frac{P + \sqrt{P}}{P}}$$

$\sin$, $\cos$ زوایای مستم برابرند

$$b) \sin(45^\circ) = \frac{1 - \cos 135^\circ}{r} = \frac{1 + \frac{\sqrt{r}}{r}}{r} = \frac{1}{r} + \frac{\sqrt{r}}{r} = \frac{r + \sqrt{r}}{r}$$

$$\sin 4V_1 \delta = \sqrt{\frac{P_1 + P_2}{P_1}}$$