

$$6) \quad s^2 c^2 = -3s^2 - 12$$

$$s^2 c^2 + 3s^2 + 12 = 0$$

$$\Rightarrow \sqrt{s^2 - 4(s)(12)}$$

$$(s)^2$$

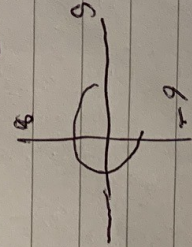
$$-3 \pm \sqrt{-240}$$

$$\frac{-3 \pm \sqrt{-240}}{10}$$

$$\frac{-3 \pm \sqrt{15 \cdot 19}}{10} = \frac{-3}{10} \pm \frac{15 \cdot 19}{10}$$

$$= 0.02$$

$$i) (s-9) \int \frac{5}{s^2 + 5^2}$$



$$r = 10.29$$

$$\theta = 60.94^\circ$$

$$\theta = 240.94^\circ$$

$$\theta = 380.299.06$$

$$50.45 (\cos 60.94 + j \sin 60.94)$$

$$304.7 \quad 304.7$$

$$0.87$$

$$= 44.97$$

$$51.45$$

$$= 24.99$$