

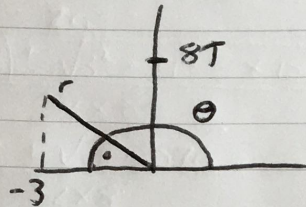
$$1294800 \cdot 898 (0.1770847403 + -0.984195608)$$

$$= 229289 \cdot 4808$$

$$- 1274337 \cdot 3577 \text{ J}$$

$$\text{ii) } (-3 + 8j)^5$$

$$r^n (\cos n\theta + j \sin n\theta)$$



$$r^2 = 3^2 + 8^2$$

$$r = \sqrt{9 + 64}$$

$$r = \sqrt{73}$$

$$r = 4.179$$

$$\tan = \frac{8}{3}$$

$$= \tan^{-1}\left(\frac{8}{3}\right)$$

$$= 69.44$$

$$\theta = 180 - 69.44$$

$$= 110.567^\circ$$

$$4.179^5 (\cos 5 \times 110.567 + j \sin 5 \times 110.567)$$

$$1274.564611 (\cos 552.835 + j \sin 552.835)$$

$$1274.564611 (-0.97501838361 + -0.222144411j)$$

$$- 1242.718131$$

$$- 283.1374048j$$