

BHASVIC MaTHS

A2 Doubles summer assignment Answers 3

Section: *Core*

Past

1. $-\frac{13}{5} - \frac{1}{5}i$

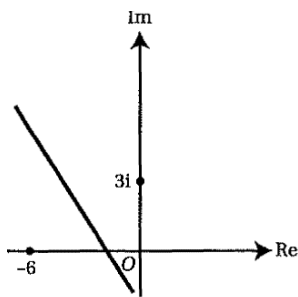
2. $z = \frac{3}{10} + \frac{1}{10}i, w = \frac{3}{5} + \frac{1}{5}i$

3. $z = 6 - \frac{1}{2}i$

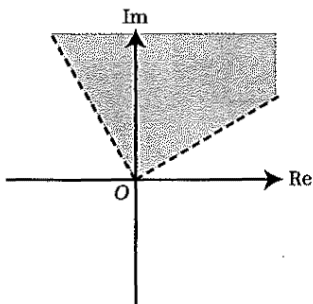
4. $z = -\frac{5}{3} + \frac{1}{3}i$

5. (a) $-2 \pm 4i$ (b) $-2 \pm i\sqrt{3}$ (c) $\pm 5i$ (d) $-i \pm 1$ (e) $(-1 \pm \sqrt{3})i$

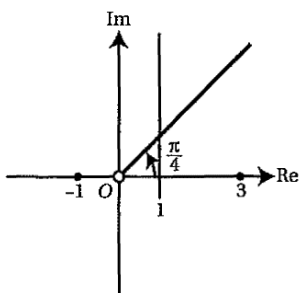
6.



7.



8. a



b $z = 1 + i$

Present

1. $\frac{1}{2}n(n+1)(n^2+n+1)$

2. (a) $\frac{1}{r} - \frac{1}{r+2}$

(b) $\frac{3}{2} - \frac{1}{n+1} - \frac{1}{n+2}$

3. (a) $\frac{1}{4}n(n+1)(n+2)(n+3)$

(b) 26 527 650

4. (a) $\frac{1}{3}(n+1)((n+2)(n+3) - 2)$

(b) $\frac{1}{3}n(n^2 + 6n + 11)$

5. (a) $6 - \frac{5}{n+1} - \frac{2}{n+2}$

(b) 6

Future

1. $\frac{\pi}{2}$