

## 8.3

Show all work. Answers without adequate justification will not receive full credit

1. Given  $z = 3 + 2i$  and  $w = -4i$  find the simplified  $a+bi$  form of the following

a.  $w - z =$

b.  $\frac{z}{w} =$

2. Write the following in polar form

a.  $z = 3 + 2i$

b.  $w = -4i$

3. Write  $(3 + 2i)^4$  in the simplified  $a+bi$  form

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2. Write the following in polar form

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3. Write  $(4 + 2i)^4$  in the simplified  $a+bi$  form