***Solution Section* 8.7 – Trigonometric Form**

***Exercise***

Write  in trigonometric form. (Use radian measure)

***Solution***







 



The angle is in quadrant *II*, therefore;







***Exercise***

Write  in trigonometric form.

***Solution***







 



The angle is in quadrant *II*, therefore;







***Exercise***

Write  in trigonometric form.

***Solution***







 



The angle is in quadrant *III*, therefore;







***Exercise***

Write  in trigonometric form.

***Solution***









 





***Exercise***

Write  in trigonometric form.

***Solution***







 



The angle is in quadrant *IV*, therefore;







***Exercise***

Write  in trigonometric form.

***Solution***







 



The angle is in quadrant *IV*, therefore;







***Exercise***

Write  in trigonometric form.

***Solution***













***Exercise***

Write  in trigonometric form.

***Solution***







 



The angle is in quadrant *II*, therefore;







***Exercise***

Write  in standard form.

***Solution***





***Exercise***

Write  in standard form.

***Solution***







***Exercise***

Write  in standard form.

***Solution***





***Exercise***

Write  in standard form.

***Solution***





***Exercise***

Write  in standard form.

***Solution***





***Exercise***

Find the quotient . Write the result in rectangular form.

***Solution***









***Exercise***

Divide . Write the result in rectangular form.

***Solution***





























***Exercise***

Find  and express the result in rectangular form.

***Solution***

























***Exercise***

Find  and express the result in rectangular form.

***Solution***



























***Exercise***

Find and express the result in rectangular form 

***Solution***











The angle is in quadrant *IV*, therefore;











 







***Exercise***

Find and express the result in rectangular form 

***Solution***











The angle is in quadrant *IV*, therefore;









 







***Exercise***

Find and express the result in rectangular form 

***Solution***









***Exercise***

Find and express the result in rectangular form 

***Solution***







***Exercise***

Find and express the result in rectangular form 

***Solution***











The angle is in quadrant *IV*, therefore;









 





***Exercise***

Find and express the result in rectangular form 

***Solution***









***Exercise***

Find and express the result in rectangular form 

***Solution***









***Exercise***

Find and express the result in rectangular form 

***Solution***







***Exercise***

Find ***fifth*** roots of  and express the result in rectangular form.

***Solution***







































***Exercise***

Find the ***fourth*** roots of 

***Solution***





















***Exercise***

Find the ***fourth*** roots of 

***Solution***











The angle is in quadrant *IV*, therefore;





























***Exercise***

Find the ***fourth*** roots of 

***Solution***













The angle is in quadrant *IV*, therefore;



























***Exercise***

Find the ***fourth*** roots of 

***Solution***





























***Exercise***

Find the ***cube*** roots of 27.

***Solution***



















***Exercise***

Find the ***cube*** roots of 

***Solution***













The angle is in quadrant *IV*, therefore;





















***Exercise***

Find the ***cube*** roots of 

***Solution***





















***Exercise***

Find all complex number solutions of .

***Solution***

















































