1. Find the equivalent polar and exponential forms of the below complex numbers:

**• 5 + 2j**

Polar:

Exponential:

**• 5 – 2j**

Polar:

Exponential:

**• 6 + 4j**

Polar:

Exponential:

• 5 – 5j

Polar:

Exponential:

• 2 + 3j

Polar:

Exponential:

1. **Find the equivalent rectangular form of the below complex numbers:**

**•**

Rectangular form: 1+j

**•**

Rectangular form: -2-2j

**•**

Rectangular form: +j

**•**

Rectangular form: +j

1. **For the two complex numbers given below, find the equivalent polar and exponential forms. Then, calculate z1z2 and for each of the 3  
   forms and show that they are equal.**

|  |  |
| --- | --- |
| Polar:  Exponential: | Polar:  Exponential: |

z1z2 = (2\*-1 - 3\*4) + (2\*4 + 3\*-1)j =

Polar:

Exponential:

Polar:

Exponential: