**Part A Instructions:** Solve the following using half-angle and double-angle identities.

1. **,** **given that and**
2. **,** **given that**
3. **,** **given that**
4. **,** **given that**

**Part B Instructions:** Answer the question below.

1. **Write in terms of trigonometric functions with their first powers.  
     
     
     
     
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**Answers: Part A Instructions:** Solve the following using half-angle and double-angle identities.

1. **,** **given that and**
2. **,** **given that**
3. **,** **given that**
4. **,** **given that**

**Part B Instructions:** Answer the question below.

1. **Write in terms of trigonometric functions with their first powers.  
     
     
     
     
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