**Use De Moivre's theorem to change the given complex number to the form a + bi, where a and b are real numbers.**

1. (3 + 3i)5  2. (1 - i)10  3. (1 - $\sqrt{3}$ i)3

4. ($-\frac{\sqrt{2}}{2}+ \frac{\sqrt{2}}{2}i$)15 5. ($-\frac{\sqrt{3}}{2}-\frac{1}{2 }$ i)20  6. ($\sqrt{3}$ + i)7

7. Find the two square roots of 1 + $\sqrt{3}$ i.

8. Find the four fourth roots of $-1-\sqrt{3}$ i.

9. Find the three cube roots of -27i.

10. Find the six sixth roots of unity.

11. Find the five fifth roots of 1 + i.

**Find the solutions of the equation.**

12. x4 - 16 = 0