Problems 1-10: Find all solutions of the equation on $0 \leq x<360^{\circ}$ and $0 \leq x<2 \pi$.

| 1. $\sin x=1 / 2$ | 2. $\cos x=-1 / 2$ |
| :--- | :--- |
| 3. $\tan x=\sqrt{3}$ |  |
| 5. $2 \sin ^{2}-\sqrt{3}=0$ | 4. cscx $=-\frac{2}{\sqrt{3}}$ |
| 7. $2 \sin ^{2} x-1=0$ | $6.2 \cos x=1$ |
| 9. $3 \tan ^{2} x-1=0$ |  |

13. Write the equation of a polynomial that has a solution at -2 and 3 and complex solutions of $3 i$ and -3 i. Then sketch the graph of your polynomial using the coordinate plane to the right.


