1. Solve $-3 x^{2}+4 x-4=0$ by using the Quadratic Formula.
A. $\frac{-2 \pm 2 i \sqrt{2}}{3}$
B. $\frac{2}{3} \pm 4 i \sqrt{2}$
C. $\frac{2 \pm 2 i \sqrt{2}}{3}$
D. $2,-6$
2. Factor: $9 x^{2}-121$
3. Factor: $4 x^{2}+17 x-15$
4. Find the solutions to the equation by factoring: $2 x^{2}-15 x=-28$
5. Identify the following features of the quadratic function: $f(x)=-4 x^{2}-8 x+7$
A. Axis of Symmetry
B. Vertex
C. Y-intercept
D. X-intercepts E. Direction of Opening F. Max/Min Value
G. Domain/Range
6. Find the product: $(7-4 i)(3+7 i)$
7. Find the quotient: $\frac{5-i}{2+3 i}$
8. Amy has two gardens.

Her flower garden has the following dimensions:
Her vegetable garden has the following dimensions:
Length: $4 x^{2}-5 x+1$ Width: $x^{2}+6 x+7$ Length: $3 x^{2}+2 x+9$ Width: $x^{2}-x-5$

Find the expression that represents how much greater the perimeter of Amy's flower garden is than the perimeter of her vegetable garden.
9. Find the difference: $\left(5 x^{2}-9 x+13\right)-\left(-2 x^{2}+14 x+26\right)$
10.Simplify: $(3 x-7)-9(x+3)+4(3 x+5)$

