

Simplify the following:

1. $\sqrt{-64}$

2. $\sqrt{-20}$

3. $5\sqrt{-100}$

Solve each of the following equations for x

4. $x^2 = -50$

5. $x^2 - 7 = -82$

6. $-3x^2 + 17 = 113$

7. $-3(x + 7)^2 = 72$

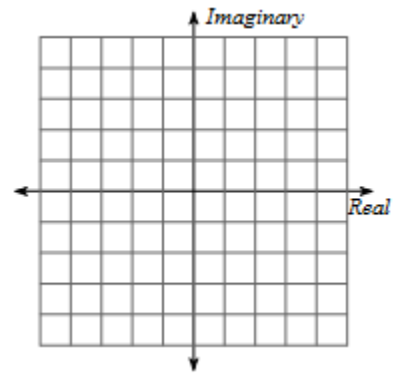
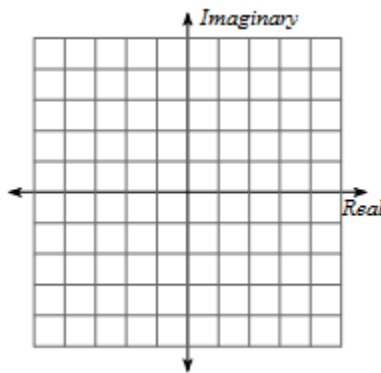
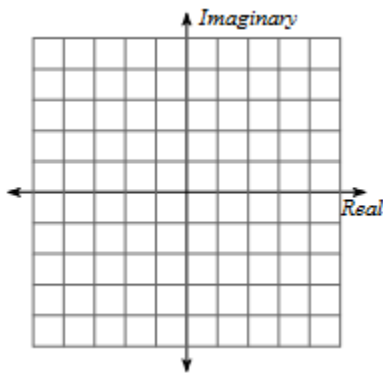
8. $5(x - 2)^2 + 20 = -60$

Graph the following complex numbers

9. $1 + 4i$

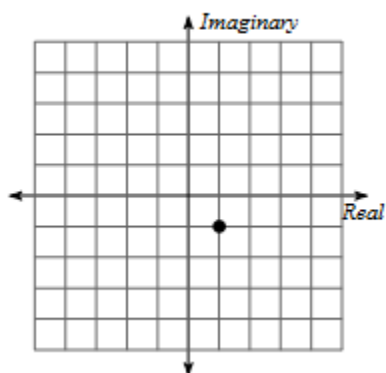
10. $-3 - 3i$

11. $4 - 5i$

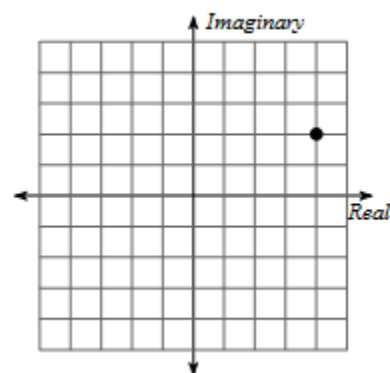


Identify each complex number graphed.

12)



13)



Simplify

14) $(-7i) + (8 + i) + (-4 + 8i)$

15) $(-8 + 4i) + (2i) - (2 - 6i)$

16) $(1 + 5i) - (-2 - 2i) + 8$

17) $(7 - 4i) - (-8 - 4i) + (-6 + 8i)$