

Simplify the following:

1.  $\sqrt{-32}$

2.  $(3 + 5i) + (4 + 2i) - (6 - 7i)$

3.  $(-i) - (2 + 3i) - (-2 - i)$

Solve each of the following equations for  $x$ 

4.  $x^2 = -90$

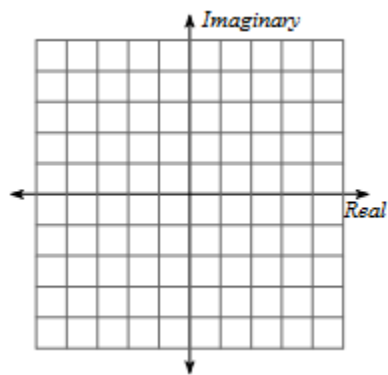
5.  $x^2 + 9 = -15$

6.  $-6x^2 + 17 = 125$

7.  $-4(x - 7)^2 + 14 = -22$

Graph the following complex number.

8.  $1 + 4i$



Identify the complex number graphed.

9.

