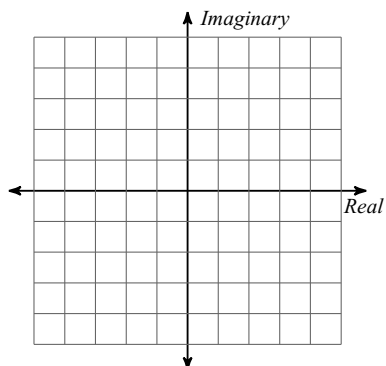


4.8A-B-1 Extra Practice

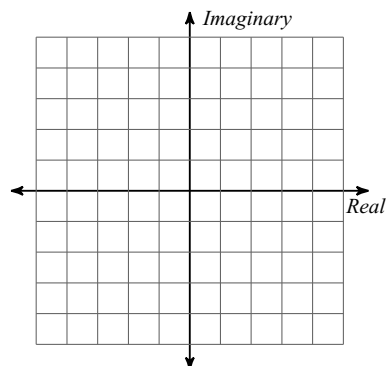
Period _____

Graph each number in the complex plane.

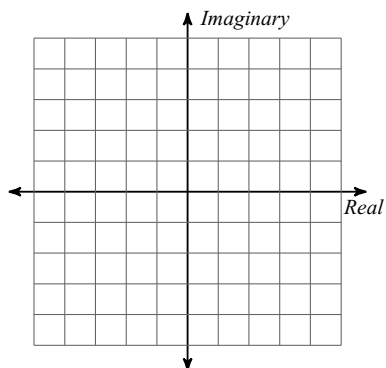
1) $5 - 3i$



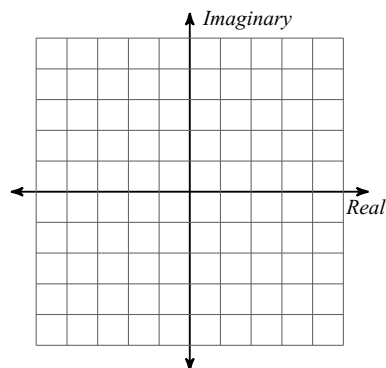
2) $3 + 2i$



3) $-1 + 4i$



4) $-4i$

**Simplify.**

5) $\sqrt{-45}$

6) $\sqrt{-180}$

7) $\sqrt{-16}$

8) $\sqrt{-36}$

9) $\sqrt{-27}$

10) $\sqrt{-54}$

Find the absolute value of each complex number.

11) $|-5 + 8i|$

12) $|-5 + 10i|$

13) $|-4 + 8i|$

14) $|-2 + 9i|$

15) $|-9i|$

16) $|7 + i|$

Simplify.

17) $(3 + i) - (4 - 3i)$

18) $-5 - (5i) - (-7 - 7i)$

19) $-2 + 2 + (4 - 7i)$

20) $(4 + 5i) - (6i) + (4i)$

21) $(7 - 2i) - (4 - 2i)$

22) $(2 + 6i) + 2 + (4i)$

23) $(-4 - 7i) - (8 + i) - 8$

24) $(1 - 4i) - (8 - 2i) + (-8 + 4i)$

25) $3 - (4 + 5i) - (5 - 2i)$

26) $(-6i) - (7 - 6i) + (2 + 4i)$

Multiply. Simplify.

27) $7i \cdot 7i$

28) $6i \cdot 2i \cdot 7i$

29) $(-1 + 6i)(-7 - 7i)$

30) $(-1 - 2i)(7 - 5i)$

31) $(3 + 4i)(-4 - 5i)$

32) $(1 - 5i)(1 + 5i)$

33) $(5 + 7i)(-5 + 2i)$

34) $(2 - 8i)(2 + 8i)$