

Corrective Assignment

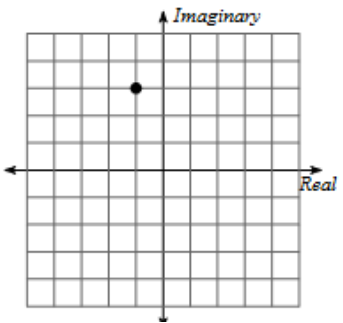
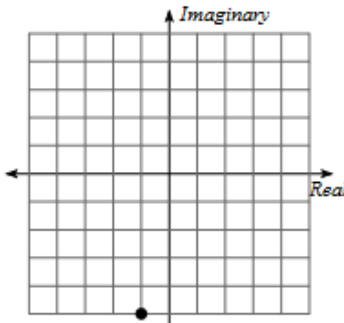
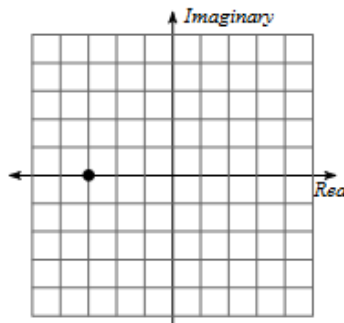
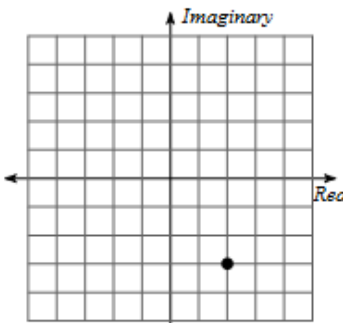
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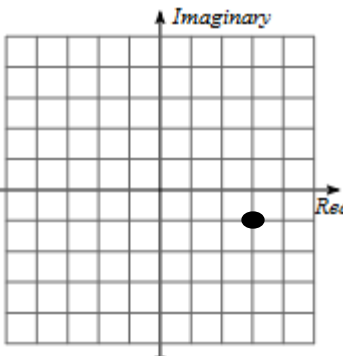
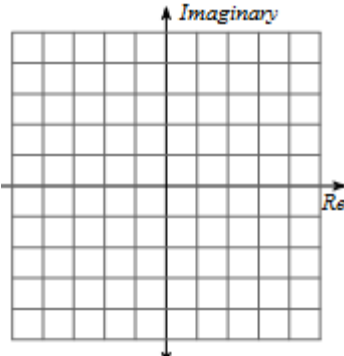
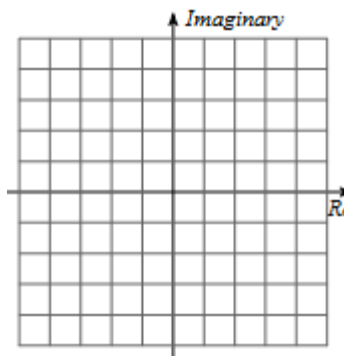
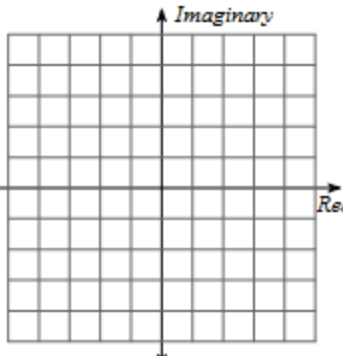
Simplify.

1. i^{10}	2. i^{21}	3. i^{36}	4. i^{45}	5. i^{87}
6. $\sqrt{-27}$	7. $\sqrt{-100}$	8. $\sqrt{-125}$	9. $-\sqrt{32}$	10. $\sqrt{-72}$

Identify each complex number graphed.

11. 	12. 	13. 	14. 
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Graph each number in the complex plane.

15. $-2 - 2i$ 	16. -5 	17. $4 - 3i$ 	18. $3 - i$ 
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Solve. Express your radical solutions in the simplest form.

19. $x^2 = -17$	20. $5 - 3y^2 = 59$	21. $2m^2 = -100$
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Solve. Express your radical solutions in the simplest form.

22. $(x - 3)^2 + 61 = 4$

23. $-16 = (h + 7)^2 + 9$

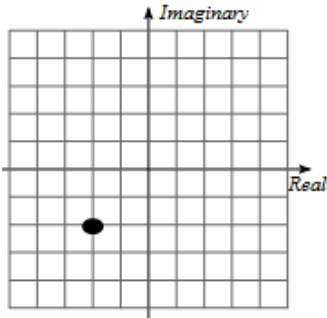
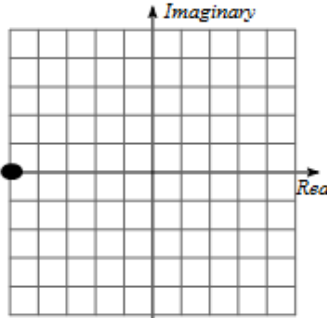
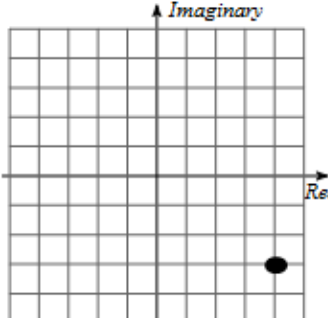
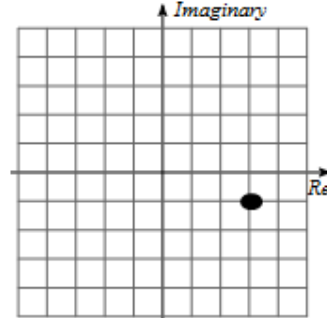
24. $3(t - 6)^2 = -114$

25. $p^2 + 98 = -5p^2 - 46$

26. $(v - 3)^2 + 54 = 0$

27. $w^2 + 85 = 4$

ANSWERS TO 6.1 CORRECTIVE ASSIGNMENT

1. $i^2 = -1$	2. $i = i$	3. $i^4 = 1$	4. $i = i$	5. $i^3 = -i$	6. $3i\sqrt{3}$	7. $10i$
8. $5i\sqrt{5}$	9. $-4\sqrt{2}$	10. $6i\sqrt{2}$	11. $-1 + 3i$	12. $-1 - 5i$	13. -3	14. $2 - 3i$
15. 	16. 	17. 	18. 			
19. $\pm i\sqrt{17}$	20. $\pm 3i\sqrt{2}$	21. $\pm 5i\sqrt{2}$	22. $3 \pm i\sqrt{57}$			
23. $-7 \pm 5i$	24. $6 \pm i\sqrt{38}$	25. $\pm 2i\sqrt{6}$	26. $3 \pm 3i\sqrt{6}$			
27. $\pm 9i$						