

1.  $15 + 4\sqrt{11}$

3.  $7$

5.  $\frac{1}{4}$

7.  $x = 7$

9.  $x = -2$

11.  $x = 16$

13.  $7i$

15.  $-35$

17.  $-12$

19.  $-\frac{i\sqrt{3}}{3}$

2.  $12 + 11\sqrt{2}$

4.  $-\frac{2\sqrt{7}-7\sqrt{2}}{5}$  or  $\frac{7\sqrt{2}-2\sqrt{7}}{5}$

6.  $-\frac{5+2\sqrt{3}+2\sqrt{5}+\sqrt{15}}{2}$

8. No solution

10.  $x = 1$

12.  $x = 8$  ( $x = 2$  is 😞)

14.  $2i\sqrt{7}$

16.  $-3\sqrt{10}$

18.  $-\frac{6i}{7}$

20.  $\frac{i\sqrt{15}}{5}$

21.  $y = \pm 9i$

22.  $n = \pm 2i\sqrt{2}$

23.  $9 - 2i$

24.  $-16 + 12i$

25.  $-4 + 20i$

26.  $97$

27.  $-16 - 30i$

28.  $13$

29.  $\frac{6}{13} - \frac{9}{13}i$

30.  $-\frac{\sqrt{3}}{5} - \frac{\sqrt{2}}{5}i$