

# Answer Key

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## Practice C

- $(x + \frac{1}{3})^2$
- $(2x + 5)^2$
- $(2x - \frac{1}{5})^2$
- $(3x + \frac{1}{2})^2$
- $(x + 0.8)^2$
- $(0.3x - 0.4)^2$
- $-4 - \sqrt{19}, -4 + \sqrt{19}$
- $5 - \sqrt{19}, 5 + \sqrt{19}$
- $\frac{5}{2} - \frac{\sqrt{21}}{2}, \frac{5}{2} + \frac{\sqrt{21}}{2}$
- $-\frac{7}{2} - \frac{\sqrt{65}}{2}, -\frac{7}{2} + \frac{\sqrt{65}}{2}$
- $-\frac{5}{2} - \frac{\sqrt{57}}{2}, -\frac{5}{2} + \frac{\sqrt{57}}{2}$
- $1 - \sqrt{5}, 1 + \sqrt{5}$
- $-5, 1$
- $\frac{-3}{2} - \frac{\sqrt{21}}{2}, \frac{-3}{2} + \frac{\sqrt{21}}{2}$
- $-1 - \frac{2\sqrt{15}}{5}, -1 + \frac{2\sqrt{15}}{5}$
- $-\frac{3}{2} - \frac{\sqrt{33}}{2}, -\frac{3}{2} + \frac{\sqrt{33}}{2}$
- $-2, -1$
- $-\frac{5}{2} - \frac{3}{2}i, -\frac{5}{2} + \frac{3}{2}i$
- $\frac{1}{2} - \frac{\sqrt{3}}{2}i, \frac{1}{2} + \frac{\sqrt{3}}{2}i$
- $\frac{5}{2} - \frac{\sqrt{5}}{2}, \frac{5}{2} + \frac{\sqrt{5}}{2}$
- $-2 - \sqrt{2}, -2 + \sqrt{2}$
- $y = (x - 8)^2 - 62; (8, -62)$
- $y = 2(x + 3)^2 - 23; (-3, -23)$
- $y = 3(x - \frac{5}{2})^2 - \frac{71}{4}; (\frac{5}{2}, -\frac{71}{4})$
- $y = 2(x + \frac{3}{4})^2 - \frac{1}{8}; (-\frac{3}{4}, -\frac{1}{8})$
- $y = -(x - 2)^2 + 3; (2, 3)$
- $y = -4(x + \frac{1}{4})^2 - \frac{11}{4}; (-\frac{1}{4}, -\frac{11}{4})$
- 10 ft; 30.03 ft
- 204.96 ft/s