

CHAPTER 2 PRACTICE EXAM SOLUTIONS

1. $x \in \left\{ \frac{-3-2\sqrt{11}}{5}, \frac{-3+2\sqrt{11}}{5} \right\}$

2. $x \in \{-1, 5\}$

3. $x \in \{-1, 5\}$

4. $x \in \left\{ -\frac{38}{3}, 7 \right\}$

5. $x \in \left\{ -3, \frac{3}{4}, 3 \right\}$

6. No Real Solution

7. $x \in (-\infty, 4)$

8. $x \in \left(-\frac{5}{2}, \frac{1}{3} \right)$

9. $x \in (-\infty, -7 - \sqrt{35}) \cup (-7 + \sqrt{35}, \infty)$

10. $x \in \left[-\frac{3}{4}, \frac{1}{4} \right]$

11. $x \in (-5, 2)$

12. $x \in [-3, \infty)$

13. $x \in (-\infty, 5 - \sqrt{6}) \cup (5 + \sqrt{6}, \infty)$

14. $x \in [-2, 1] \cup [3, \infty)$

15. 9.6 feet

16. 40 shares of computer stock must be bought

17. $\frac{8}{11}$ ounces silver and $\frac{3}{11}$ ounces gold

18. 10 inches \times 30 inches \times 5 inches -OR-
4.574 inches \times 13.722 inches \times 23.899 inches