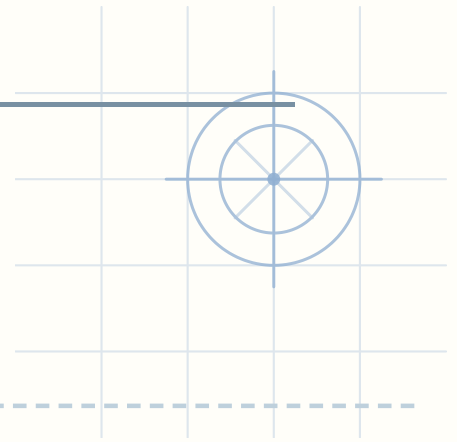


Solve by square roots — $(x - h)^2 = k$

Name: _____

Date: _____

Solve each equation by taking square roots.



1 $(x - 4)^2 = 81$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

2 $(x + 3)^2 = 4$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

3 $(x - 8)^2 = 100$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

4 $(x - 8)^2 = 16$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

5 $(x - 5)^2 = 36$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

6 $(x - 3)^2 = 49$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

7 $(x - 5)^2 = 49$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

8 $(x - 7)^2 = 1$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

9 $(x + 8)^2 = 36$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$

10 $(x - 8)^2 = 25$ $x = \underline{\hspace{1cm}}$ or $x = \underline{\hspace{1cm}}$



Solve by square roots · $(x - h)^2 = k$ — Answer key

1. $(x - 4)^2 = 81 \rightarrow x = -5$ or $x = 13$

5. $(x - 5)^2 = 36 \rightarrow x = -1$ or $x = 11$

9. $(x + 8)^2 = 36 \rightarrow x = -14$ or $x = -2$

2. $(x + 3)^2 = 4 \rightarrow x = -5$ or $x = -1$

6. $(x - 3)^2 = 49 \rightarrow x = -4$ or $x = 10$

10. $(x - 8)^2 = 25 \rightarrow x = 3$ or $x = 13$

3. $(x - 8)^2 = 100 \rightarrow x = -2$ or $x = 18$

7. $(x - 5)^2 = 49 \rightarrow x = -2$ or $x = 12$

4. $(x - 8)^2 = 16 \rightarrow x = 4$ or $x = 12$

8. $(x - 7)^2 = 1 \rightarrow x = 6$ or $x = 8$

