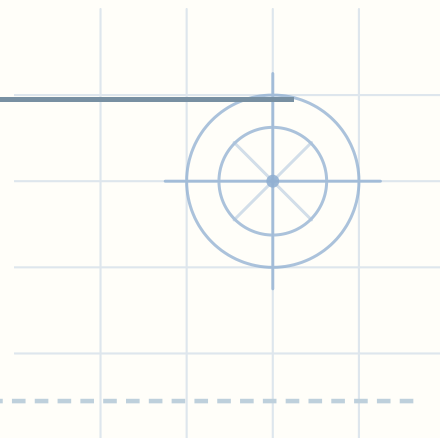


Solve by square roots — $X^2 = p$ and $ax^2 = c$

Name: _____

Date: _____

Solve each equation by taking square roots.



1 $x^2 = 49$ $x = \underline{\quad}$ or $x = \underline{\quad}$

2 $x^2 = 100$ $x = \underline{\quad}$ or $x = \underline{\quad}$

3 $x^2 = 36$ $x = \underline{\quad}$ or $x = \underline{\quad}$

4 $7x^2 = 28$ $x = \underline{\quad}$ or $x = \underline{\quad}$

5 $5x^2 = 180$ $x = \underline{\quad}$ or $x = \underline{\quad}$

6 $x^2 = 121$ $x = \underline{\quad}$ or $x = \underline{\quad}$

7 $x^2 = 4$ $x = \underline{\quad}$ or $x = \underline{\quad}$

8 $2x^2 = 200$ $x = \underline{\quad}$ or $x = \underline{\quad}$

9 $9x^2 = 225$ $x = \underline{\quad}$ or $x = \underline{\quad}$

10 $2x^2 = 50$ $x = \underline{\quad}$ or $x = \underline{\quad}$



Solve by square roots · $X^2 = p$ and $ax^2 = c$ — Answer key

1. $x^2 = 49 \rightarrow x = -7$ or $x = 7$

2. $x^2 = 100 \rightarrow x = -10$ or $x = 10$

3. $x^2 = 36 \rightarrow x = -6$ or $x = 6$

4. $7x^2 = 28 \rightarrow x = -2$ or $x = 2$

5. $5x^2 = 180 \rightarrow x = -6$ or $x = 6$

6. $x^2 = 121 \rightarrow x = -11$ or $x = 11$

7. $x^2 = 4 \rightarrow x = -2$ or $x = 2$

8. $2x^2 = 200 \rightarrow x = -10$ or $x = 10$

9. $9x^2 = 225 \rightarrow x = -5$ or $x = 5$

10. $2x^2 = 50 \rightarrow x = -5$ or $x = 5$

