

Study Guide for the final: 6 of 7

This document may be collected and graded. Do your best work and do all problems.

Name _____

Points received: _____/10

Objective #1: Solve quadratics using square roots

Directions: Show your work to receive credit. See your class notes if you forget what work to complete.

For each question:

- Get the variable x^2 on one side of the equation, the number on the other
- Use multiplication or division to isolate the x^2 (get rid of the coefficient)
- Find the square root of both sides, remembering that 2 answers are likely.
- Keep in mind that an equation could have no solutions, 1 solution, or 2 solutions

1. $x^2 - 4 = 0$

2. $3x^2 - 48 = 0$

3. $\frac{1}{2}x^2 = 4\frac{1}{2}$

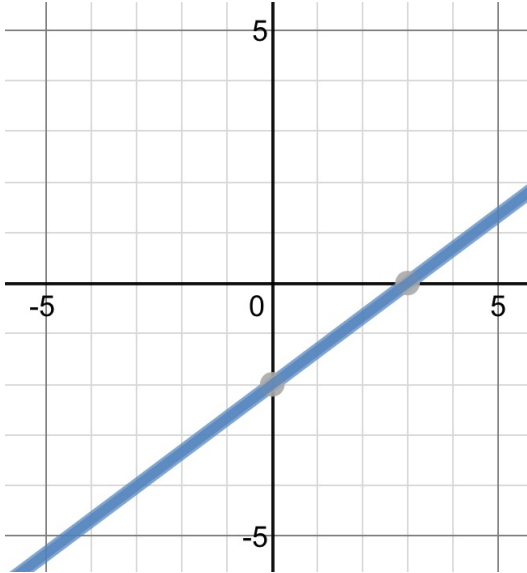
4. $3x^2 + 40 = 0$

5. $6x^2 = 0$

6. Create an equation that cannot be solved with square roots.

Review portion for the final

7. What is the equation of the line below?



8. Find the slope through (8, 7) and (4, -5)

9. Simplify $\sqrt{108}$ without using decimals

10. Evaluate $\frac{m^{10}}{m^6}$ if $m = 5$

11. Find the slopes of both lines in the image below.

