

PRE-ALGEBRA - Review 2, Lessons 8-14

Simplify each expression.

1. $\sqrt{49} =$

2. $\sqrt{x^2} =$

3. $\frac{4}{\sqrt{36}} =$

Simplify using order of operations PEMDAS.

4. $6^2 - 4(6-1) - 8 + 17 =$

5. $12 + 56 \div 7 - 4^2 =$

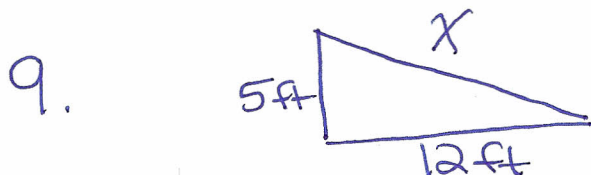
6. $(3 \times 8^2 - 4) + 13 =$

7. $5(21 - 6)^2 + 4 \times 8 =$

Solve.

8. $4 - 10 + x - 12x = 7(x) - 2x + 30$

Use Pythagorean theorem to solve for the unknown side.



Divide. Change any improper fractions to a mixed number.

2/2

$$10. \frac{5}{6} \div \frac{5}{12} =$$

$$11. \frac{2}{3} \div \frac{8}{9} =$$

Add or subtract. Reduce answers.

$$12. 4 \frac{1}{8}$$

$$+ 3 \frac{2}{3}$$

$$13. 9$$

$$- 2 \frac{2}{3}$$

14. FOUR TIMES A NUMBER MINUS FIVE EQUALS SEVEN TIMES A NUMBER MINUS TWENTY-NINE. Write an equation and find the number.