

SUMMER MATH FOR STUDENTS GOING TO GEOMETRY

Name _____

SHOW ALL YOUR WORK ON SEPARATE PAPER.

NO WORK = NO GRADE

Solve each equation by factoring.

1) $(3x + 1)(x + 4) = 0$

2) $(r - 1)(r + 1) = 0$

3) $v^2 - 8v + 7 = 0$

4) $3x^2 + 12x + 9 = 0$

5) $x^2 + 7x = 8$

6) $n^2 = -9 - 6n$

7) $n^2 - 2n - 3 = 0$

8) $x^2 - 3x - 18 = 0$

9) $4r^2 = 24 - 10r$

10) $4m^2 = 2 - 4m$

11) $-2n^2 + 2n + 53 = -7$

12) $-10x^2 - 12x + 45 = -9x^2 + 1 - 5x$

Solve each system by substitution.

13) $x + 5y = 20$

$-3x - 5y = -20$

14) $7x + y = 7$

$-7x - 8y = -7$

Solve each system by elimination.

15) $5x + y = -13$

$x + 2y = 1$

16) $6x - 9y = -30$

$-x + 18y = 5$

Solve each equation with the quadratic formula.

Simplify.

17) $\sqrt{16x^4} =$

18) $\sqrt[3]{8x^3} =$

19) $\sqrt[4]{16x^4} =$

20) $\sqrt{48} =$