

CDL Day 17 Alg

Date _____ Period _____

Solve each equation by factoring.

1) $2a^2 + 16 = 18a$

2) $p^2 - 49 = 0$

3) $3n^2 + 6n = 144$

4) $v^2 = 6v$

Solve each equation by completing the square.

5) $n^2 - 12n - 16 = -3$

6) $m^2 + 6m + 3 = -2$

7) $x^2 + 10x + 24 = 8$

8) $x^2 - 2x - 33 = -9$

Solve each equation by taking square roots.

9) $4k^2 + 2 = 302$

10) $2x^2 + 1 = -29$

11) $9n^2 - 7 = -97$

12) $4n^2 - 4 = 116$

Solve each equation with the quadratic formula.

13) $6k^2 = 115 + 7k$

14) $8v^2 - 1 = -11v$

15) $4b^2 - 36 = 0$

16) $5x^2 = 11 + 6x$

Find the absolute value of each complex number.

17) $|-8 + 8i|$

18) $|-9 + 10i|$

Simplify.

19) $(-3 + i) - (6 - 3i)$

20) $(-6 + 3i)(-2 + i)$