4-3 Simplify complex (imaginary) numbers

Date_____ Period____

Solve each equation by factoring.

1) $(x-5)(7x-3)=0$

2) $(v-8)(v-6)=0$

3) $k^2-k-6=0$

4) $n^2-4n=0$

Solve each equation with the quadratic formula.

5) $4m^2-3=0$

6) $3p^2-11p-18=0$

Simplify.

7) $\sqrt{-256}$

8) $\sqrt{-18}$

9) $\sqrt{-147}$

10) $\sqrt{-28}$

11) $\sqrt{-252}$

12) $\sqrt{-27}$

Solve each equation by taking square roots.

13) $k^2 = 38$

14) $n^2 = -87$

15) $n^2 = 57$

16) $x^2 = 64$

17) $x^2 = -21$

18) $9x^2 - 7 = 722$

19) $10p^2 + 8 = 48$

20) $5v^2 + 10 = 190$