Algebra I **Name:** KEY
U7L1 Practice

1. Put each equation into standard form.

a. $4x+7=-5x^2$

$5x^2+4x+7=0$

b. $2x^2-8=2x^2+7x$

$-7x-8=0$ not quadratic

$0=7x+8$

c. $8x^2=9-5x$

$8x^2+5x-9=0$

$0=-8x^2-5x+9$

d. $10x^2-9=-8x$

$10x^2+8x-9=0$

2. Solve each quadratic equation using square roots.

a. $m^2=16$ $\boxed{m=\pm 4}$

b. $n^2-25=0$ $n^2=25$ $\boxed{n=\pm 5}$

c. $3p^2=12$ $p^2=4$ $\boxed{p=\pm 2}$

d. $\frac{5}{4}q^2=20$ $q^2=16$ $\boxed{q=\pm 4}$

e. $a^2+10=25$ $a^2=15$ $\boxed{a=\pm\sqrt{15}}$

f. $2t^2-6=-4$ $2t^2=2$ $t^2=1$ $\boxed{t=\pm 1}$

g. $3u^2+5=17$ $3u^2=12$ $u^2=4$ $\boxed{u=\pm 2}$

h. $(y-7)^2-5=11$ $(y-2)^2=16$ $y-2=\pm 4$ $y-2=4$ $y-2=-4$ $\boxed{y=6 \quad y=-2}$

i. $2(w-3)^2+6=56$ $2(w-3)^2=50$ $(w-3)^2=25$ $w-3=\pm 5$ $\boxed{w=8 \quad w=-2}$