Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_

Quadratic Equations and Square Roots

Solve the following quadratic equations. Round answers as much as possible.

NO DECIMALS!!!!!!

1) $x^{2}=144$ (2) $5x^{2}-4=16$ (3) $8-10x^{2}=-22$

4) $\left(x+2\right)^{2}=49$ (5) $6\left(x-5\right)^{2}+1=19$ (6) $\frac{3}{4}x^{2}-19=26$

7) $x^{2}-12=36-2x^{2}$ (8) $9-\frac{x^{2}}{3}=-33$

(9) $-4\left(x+7\right)^{2}=-52$ 10) $2(3x+4)^{2}-5=45$

(11) $\frac{1}{3}\left(x-10\right)^{2}-8=16$ (12) $5x^{2}+12x+4=0$