

**Chapter 1 Quiz Review 3**

Name \_\_\_\_\_

**Solve.**

1.  $-4(x-3)+12=15-5(x+6)$

2.  $\frac{1}{2}-\frac{1}{3}x=\frac{4}{3}$

3.  $\frac{x+2}{4}+\frac{x-1}{3}=2$

4.  $|-7x-9|=40$

5.  $\left|\frac{1}{3}x-1\right|+3=-11$

6.  $|4x+7|-32=-16$

7.  $\left|\frac{1}{2}x-3\right|+6=12$

**Solve the quadratic equation by factoring.**

8.  $2x^2+14x=36$

9.  $-12x+8=-4x^2$

**Solve the quadratic equation using square roots.**

10.  $(2x+1)^2=9$

11.  $2x^2+90=0$

**Solve the quadratic equation using the quadratic formula.**

12.  $x^2 + \frac{2}{3}x + \frac{1}{3} = 0$

13.  $2x^2 - 5 = 8x$

**Solve the quadratic equation using any method.**

14.  $3x^2 - 75 = -15$

15.  $x^2 + x = 4$

16.  $5(x+3)^2 + 70 = 10$

17.  $x^2 - 9x = -18$

**Application Problems on pg. 106-107 #83 & 98**