

Xavier University of Louisiana

Study Guide for the Xavier Mathematics Placement Test

## 6. Solving linear equations and inequalities

### Practice Problems

Solve for  $x$  :

1.  $30 - 6x = -60$

2.  $\frac{x}{7} - \frac{1}{3} = \frac{1}{21}$

3.  $b + ax = 4a + bx$

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

5.  $2x - 14 = -20$

6.  $\frac{x}{6} - \frac{1}{7} = \frac{1}{42}$

7.  $b + ax = 2a + bx$

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