

Xavier University of Louisiana

Study Guide for the Xavier Mathematics Placement Test

2. Evaluating algebraic expressions

Multiple Choice Practice Problems

- 1 Evaluate the expression  $-9x - 7x^2 - 1$ . when  $x = -7$ .
  - a.  $-281$
  - b.  $407$
  - c.  $111$
  - d.  $405$
  - e.  $279$
  
- 2 Evaluate the expression  $\frac{-5xy+7x^2}{7x-y}$ . when  $x = -3$  and  $y = 6$ 
  - a.  $-\frac{114}{5}$
  - b.  $-\frac{10}{3}$
  - c.  $-\frac{38}{3}$
  - d.  $-\frac{89}{9}$
  - e.  $-\frac{17}{3}$
  
- 3 Evaluate the expression  $-2\sqrt{x^2 + 36}$  when  $x = -8$ 
  - a.  $-20$
  - b.  $-4$
  - c.  $28$
  - d.  $-4i\sqrt{7}$
  - e.  $-200$