

# How well do you remember Algebra?

Math 019  
First Day Assessment

1. Simplify  $\frac{2x^2y}{4x^{-2}y^5}$

2. Solve  $(x - 4)(x + 2) = 0$ .

3. Identify the vertical and horizontal asymptotes of  $\frac{1}{x - 2} + 6$

4. What's the domain of  $\frac{2x}{3 - x}$ ?

5. Solve  $\log_2 8 = x$ .

6. For  $f(x) = x^2 + 3$  and  $g(x) = x + 2$ , find  $f(g(x))$ .