

Name: ANSWER KEY

\_\_\_\_\_ points

Solve the inequality. Express your answer in terms of (1) inequalities, (2) intervals or unions of intervals, and (3) graphs.

$$\frac{x^2(3-x)}{(x+2)(x-1)} \leq 0$$

zeros = zeros of numerator = 0, 3

pts of discontinuity = zeros of denominator = -2, 1

		+		-		-		+		-
			0				0			0
			-2		0		1		3	
$x^2$		+		+		+		+		+
$3-x$		+		+		+		+		-
$x+2$		-		+		+		+		+
$x-1$		-		-		-		+		+



$$(-2, 1) \cup [3, \infty)$$

$$-2 < x < 1 \text{ or } x \geq 3$$