Quiz 5 – 31 August Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If we have the algebraic expression $\frac{10x}{x-5}$, the domain of the variable x is the set \_\_\_\_\_\_\_.
	1. {x|x≠5}
	2. {x|x>0}
	3. {x|x≥0}
	4. {x|x is a number}
2. Why is the domain of the variable y in the expression $\frac{5}{3-2y}$ equal to the set {y|y≠ $\frac{3}{2}$}?
	1. All real numbers can be substituted for x in the expression.
	2. y= $\frac{3}{2}$ forces us to divide by zero
	3. If x is positive, the expression is valid
	4. y= $\frac{3}{2}$ causes us to take the square root of a negative number
3. The expression $x^{a}·x^{b}$ equals what?
	1. $x^{a·b}$
	2. $a^{x}·b^{x}$
	3. $x^{a+b}$
	4. $x^{a-b}$
4. For all a≠0, $a^{0}$ = \_\_\_\_\_\_.
	1. 0
	2. 1
	3. -1
	4. a