Pre-Calc. 11 LG 12A QUIZ (Formative Assessment)

Marking Teacher: _____ **Name:** _____

Student #: _____

Fill the [ ] to make the expression in each pair equivalent.

1. $\frac{2}{7}, \frac{[\quad]}{28y}$

2. $\frac{x-1}{x+2}, \frac{3x-3}{[\quad]}$ $x \neq -2$

State the operation and quantity that must be applied to both the numerator and denominator of the first expression to obtain the second expression.

3. $\frac{5m^2n^3}{mn^5}, \frac{5m}{n^2}$

4. $\frac{1}{x+2}, \frac{x-2}{x^2-4}$

5. Simplify and state any non-permissible values for the variable.

a) $\frac{y^2-9}{3y+9}$

b) $\frac{2(x-4)(x+1)}{3(4-x)(x+1)}$

Simplify and identify all non-permissible values.

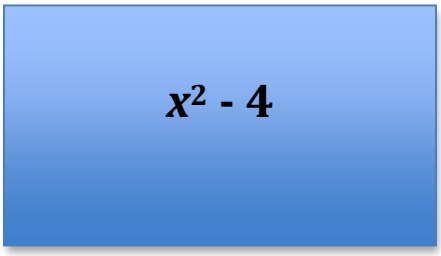
6. $\frac{8c^5d}{3x} \times \frac{12x}{4c^2d}$

7. $\frac{x^2-16}{x^2-25} \times \frac{x+5}{x+4}$

8. $\frac{4x^2-36}{x+3} \times \frac{4x-2}{2x^2-7x+3}$

9. $\frac{2m^2-m-3}{m^2-1} \div \frac{2m-3}{2}$

10. Write an expression to represent the length of the rectangle, then simplify your answer.



$\frac{x^2-3x-10}{x-5}$

Directions: ☐ **See me about this** ☐ **Move on to next guide** ☐ **Review and redo**

Pre-Calc. 11 LG 12B QUIZ (Formative Assessment)

Marking Teacher: _____ **Name:** _____

Student #: _____

Fill the [ ] to make the expression in each pair equivalent.

1. $\frac{5}{8}, \frac{[\quad]}{40x}$

2. $\frac{x+4}{x-1}, \frac{5x+20}{[\quad]}$ $x \neq 1$

State the operation and quantity that must be applied to both the numerator and denominator of the first expression to obtain the second expression.

3. $\frac{12d^2e^3}{15de^5}, \frac{4d}{5e^2}$

4. $\frac{3}{x-1}, \frac{6x+3}{2x^2-x-1}$

5. Simplify and state any non-permissible values for the variable.

a) $\frac{2x+10}{x^2+2x-15}$

b) $\frac{4(x-2)(x+6)}{7(2-x)(x+6)}$

Simplify and identify all non-permissible values.

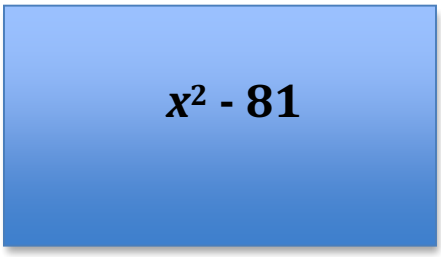
6. $\frac{7a^5b^2}{2y} \times \frac{8y}{14a^2b^5}$

7. $\frac{x^2-81}{x^2-1} \times \frac{x+1}{x-9}$

8. $\frac{4z^2-36}{z+3} \times \frac{4z-2}{2z^2-7x+3}$

9. $\frac{2x^2-x-3}{x^2-1} \div \frac{2x-3}{2}$

10. Write an expression to represent the length of the rectangle, then simplify your answer.



$\frac{x^2+10x+9}{x+1}$

Directions: ☐ **See me about this** ☐ **Move on to next guide** ☐ **Review and redo**