

Chapter 2 – Rational Expressions Test

Complete all work in the space provided. Keep it neat and organize it well (worth 1 pt each question)

1. Simplify. State any restrictions on the variable. Put the restrictions in the box provided.

a) $\frac{n-1}{3n^2-3n}$

 $\frac{3A}{1C}$

b) $\frac{x^2+8x-20}{x^2+7x-30}$

 $\frac{4A}{1C}$

c) $\frac{y^2-36}{2y-12}$

 $\frac{4A}{1C}$

__5A
__1C

d) $\frac{5n^3 - 28n^2 + 15n}{4n^3 - 6n^2 - 70n}$

2. Simplify. State any restrictions on the variable. Put the restrictions in the box provided.

__4T
__1C

a) $\frac{2x}{y} + \frac{5x - 2}{3y^2}$

__6T
__1C

b) $\frac{m}{m^2 - 3m + 2} - \frac{2m + 1}{m^2 + m - 2}$

__6T
__1C

c) $\frac{15x^2 + 2x - 1}{5x^2 + 14x - 3} \div \frac{9x + 3}{6x - 42}$

__5T
__1C

d) $\frac{x^2 + 13x + 40}{x - 4} \times \frac{x^2 - 16}{x^2 + 8x + 15}$

__8T
__1C

e) $\frac{7x}{x^2-25} + \frac{4x+8}{x^2+9x+20} \div \frac{x^2-3x-10}{x^2+x-12}$

__5T
__1C

f) $\frac{x^2+16x+64}{x^2+5x-24} \times \frac{x^2+6x-27}{x^2+17x+72}$