Math 2 Name_____

PRACTICE Quiz 5.3 & 5.4

Simplify each and state the excluded values.

1) $\frac{32x^2}{28x}$

2) $\frac{24}{30v + 36}$

3) $\frac{7x^2 - 33x + 20}{2x^2 - 8x}$

4) $\frac{20p^2 + 30p - 50}{70p^2 - 70}$

Simplify each expression.

5) $\frac{a-4b}{12ab^5}+\frac{4b}{12ab^5}$

6) $\frac{4x}{6}+\frac{5}{6y^2}$

7) $\frac{2v}{v-3}-\frac{4v}{v+2}$

8) $\frac{4}{3r+5}-\frac{2}{r-2}$

9) $5+\frac{6r-6}{r^2-1}$

10) $\frac{3n}{n-4}-\frac{5n}{n+1}$

Math 2 Name_____

PRACTICE Quiz 5.3 & 5.4

Simplify each and state the excluded values.

1) $\frac{32x^2}{28x}$

$\frac{8x}{7}$; $\{0\}$

2) $\frac{24}{30v + 36}$

$\frac{4}{5v + 6}$; $\left\{-\frac{6}{5}\right\}$

3) $\frac{7x^2 - 33x + 20}{2x^2 - 8x}$

$\frac{7x - 5}{2x}$; $\{0, 4\}$

4) $\frac{20p^2 + 30p - 50}{70p^2 - 70}$

$\frac{2p + 5}{7(p + 1)}$; $\{1, -1\}$

Simplify each expression.

5) $\frac{a-4b}{12ab^5}+\frac{4b}{12ab^5}$

$\frac{1}{12b^5}$

6) $\frac{4x}{6}+\frac{5}{6y^2}$

$\frac{4xy^2+5}{6y^2}$

7) $\frac{2v}{v-3}-\frac{4v}{v+2}$

$\frac{-2v^2+16v}{(v-3)(v+2)}$

8) $\frac{4}{3r+5}-\frac{2}{r-2}$

$\frac{-2r-18}{(r-2)(3r+5)}$

9) $5+\frac{6r-6}{r^2-1}$

$\frac{5r+11}{r+1}$

10) $\frac{3n}{n-4}-\frac{5n}{n+1}$

$\frac{-2n^2+23n}{(n-4)(n+1)}$

