

Name \_\_\_\_\_

Date \_\_\_\_\_

**Rewriting Rational Expressions - Matching Worksheet**

Match the expression of the left to its simplified version on the right.

\_\_\_\_\_ 1.  $\frac{2x - 6}{4x - 8x}$

\_\_\_\_\_ 2.  $\frac{r^2}{5r^3 - r}$

\_\_\_\_\_ 3.  $\frac{3x^2 + 12x}{6x^3 - 18x}$

\_\_\_\_\_ 4.  $\frac{9x^2 - 18x}{36x^4 + 27x^2}$

\_\_\_\_\_ 5.  $\frac{2k^4}{2k^3 - 4k^2}$

\_\_\_\_\_ 6.  $\frac{20x - 10}{5x - 15}$

\_\_\_\_\_ 7.  $\frac{6x^2 + 18x}{12x^3 - 24x}$

\_\_\_\_\_ 8.  $\frac{d^4}{d^2 + 5d}$

\_\_\_\_\_ 9.  $\frac{e^4}{e^5 - 7e^2}$

\_\_\_\_\_ 10.  $\frac{36x^2 - 18x}{6x^3 + 12x}$

a.  $\frac{x + 3}{2x^2 - 4}$

b.  $\frac{d^3}{d + 5}$

c.  $\frac{r}{5r^2 - 1}$

d.  $\frac{k^2}{k^2 - 2}$

e.  $\frac{x - 2}{4x^3 + 3x}$

f.  $\frac{6x - 3}{x^2 + 2}$

g.  $\frac{e^2}{e^3 - 7}$

h.  $\frac{x + 4}{2x^2 - 6}$

i.  $\frac{4x - 2}{x - 3}$

j.  $\frac{-(x - 3)}{2x}$

