

## Rational Operations, you try!

Simplify each expression.

1) 
$$\frac{n+3}{(n-1)(n+2)} - \frac{n+1}{(n-1)(n+2)}$$

2) 
$$\frac{3}{x+1} + \frac{3}{x+2}$$

3) 
$$\frac{2}{x-1} - \frac{2}{2x-1}$$

4) 
$$\frac{4}{3} - \frac{2}{5p-5}$$

5) 
$$\frac{x+4}{7x} \cdot \frac{7x(x-2)}{(x+6)(x+4)}$$

6) 
$$\frac{8r^2}{8} \cdot \frac{7r}{6r}$$

7) 
$$\frac{x-1}{5x^2+15x} \div \frac{1}{x+3}$$

8) 
$$\frac{(2a-1)(3a-2)}{2(a+1)} \div \frac{(2a-1)(3a-2)}{2(a-2)(a+1)}$$

9) 
$$2 - \frac{2}{n^2+2n-8}$$

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

11) 
$$\frac{10v^2-5v}{5v} \div \frac{4v^2-8v^3}{5v}$$

12) 
$$\frac{6a^2+4a}{5} \cdot \frac{5}{6a^2+4a}$$