

Adding Rational Expressions

© 2012 Kuta Software LLC. All rights reserved.

Date _____ Period _____

Simplify each expression.

1)
$$\frac{5p}{5p^2 - 29p + 20} + \frac{p - 6}{5p^2 - 29p + 20}$$

2)
$$\frac{x + 4}{3x + 18} + \frac{6}{3x + 18}$$

3)
$$\frac{x + 1}{18x + 18} + \frac{x - 2}{18x + 18}$$

4)
$$\frac{n + 4}{2n^2 - 6n - 20} + \frac{n + 3}{2n^2 - 6n - 20}$$

5)
$$\frac{x - 2}{15x^2 + 14x + 3} + \frac{5}{15x^2 + 14x + 3}$$

6)
$$\frac{5}{a + 4} + \frac{5}{5a + 3}$$

7)
$$\frac{6}{v + 3} + \frac{4}{v - 6}$$

8)
$$\frac{x + 6}{3x + 5} + \frac{6}{2x}$$

9)
$$\frac{5}{3n} + \frac{n - 4}{3n^2 - 9n}$$

10)
$$\frac{4}{a + 4} + \frac{5}{a - 4}$$

11) $\frac{x-3}{3x-1} + \frac{5}{5x}$

12) $\frac{2}{r^2+3r-18} + \frac{2r}{4}$

13) $\frac{n+3}{2n-8} + \frac{n-1}{3n}$

14) $\frac{5}{3} + \frac{r+3}{6r-3}$

15) $\frac{2x}{5x+1} + \frac{3}{6x}$

16) $\frac{6x}{2} + \frac{4x}{2x+4}$

17) $\frac{2}{p-2} + \frac{5p}{3p-3}$

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

19) $\frac{4r}{3r} + \frac{4r+1}{3r^2+6r}$

20) $\frac{4n}{3n} + \frac{4n+6}{2n+2}$