

# Simplifying Rational Expressions Assignment

Simplify the following rational expressions.

1.  $\frac{60x^2}{72x^3}$

2.  $\frac{20a^{15}}{4a^6}$

3.  $\frac{3a-3}{-ra+r}$

4.  $\frac{3m+6}{m^2-4}$

5.  $\frac{x^2-1}{2x+2}$

6.  $\frac{2y-8}{7y-28}$

7.  $\frac{x+2}{x^2+3x+2}$

8.  $\frac{c^2+2c-8}{3c^2-4c-4}$

9.  $\frac{x^2-y^2}{x-y}$

10.  $\frac{40t-25}{20}$

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11. 
$$\frac{5a^2b+5a^2c}{15ab+15ac}$$

12. 
$$\frac{2bc+2bd}{6b^2}$$

13. 
$$\frac{y-1}{y^2-1}$$

14. 
$$\frac{x^2-9}{x^2+x-6}$$

15. 
$$\frac{125a^3b-5a^4}{a-25b}$$

16. 
$$\frac{x^2-16}{x^2-8x+16}$$

17. 
$$\frac{4-x^2}{x^2-5x+6}$$

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

19. 
$$\frac{5r^2-15r+2r-6}{r-3}$$

20. 
$$\frac{x^3-x^2-x+1}{x^2-2x+1}$$