## Periew: Simplifying Rational Expressions

## Simplify each expression

$$\frac{6x}{6x+1a}$$

a) 
$$\frac{3\times+9}{4\times+12}$$

$$\frac{a+b}{a^2-b^2}$$

4) 
$$\frac{m^2-2m}{m-2}$$

5) 
$$6y^3 - 12y^2$$
 $12y - 18$ 

6) 
$$\frac{x-3}{x^2+x-12}$$

7) 
$$\frac{2x-14}{x^2-4x-21}$$

8) 
$$\frac{x^{2}-7x+10}{x^{2}-25}$$

9) 
$$\frac{2x^3 - 8x}{x^2 + 4x + 4}$$

10) 
$$\frac{x^2 - 5x + 6}{x^3 + 5x + 6}$$

11) 
$$\frac{\partial x^3 - x^2 - x}{4x^3 - \partial x^3 - \partial x}$$

$$\frac{8x^{2}-18x+9}{4x^{2}-8x+3}$$

## Answers

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Answers:

5) 
$$y^{2}(y-a)$$
  $2y-3$ 

9) 
$$\frac{2\times(x-2)}{x+a}$$

12) 
$$\frac{4x-3}{2x-1}$$