

Find the inverse of each relation.

1. 
$$\{(2, 4), (-3, 1), (2, 8)\}$$

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$$f(x) = (5x + 10) \text{ and } g(x) = \frac{1}{5}x - 2$$

$$f(g)(x) = f(\frac{1}{5}x - 2) = 5(\frac{1}{5}x - 2) + 10$$

$$= x - 10 + 10$$

$$= x \text{ identity}$$

$$f(x) = (5x + 10) = f(\frac{1}{5}x - 2) + 10$$

$$= x - 10 + 10$$

$$= x + 2 - 2$$

$$f(x) = 3x - 3$$
 and  $g(x) = \frac{1}{3}x + 4$ 

$$[fog](x) = f(\frac{1}{3}x+4) = 3(\frac{1}{3}x+4) - 3$$
  
=  $x + 12 - 3$  no  
=  $x + 9$  — not identify

p. 395	396	
10-13, 27, 30- 45-46	17, 21- 31, 33,	