February 192013 2nd.gwb - 1/3 - Tue Feb 192013 09:10:44


Find the inverse of each relation.

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

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

$$
\left.\begin{array}{rl}
f(x)=5 x+10 \text { and } g(x)=\frac{1}{5} x-2 \\
{[f \circ g](x)=f\left(\frac{1}{5} x-2\right)} & =5\left(\frac{1}{5} x-2\right)+10 \\
& =x-10+10 \\
& =x \leftarrow i \text { density } \\
& x[g \circ f](x)=g(5 x+10)
\end{array}\right) \frac{1}{5}(5 x+10)-20 \text {. } \begin{aligned}
& \\
&=x+2-2 \\
&=x \leftarrow \text { identixy }
\end{aligned}
$$

$$
\begin{align*}
& f(x)=3 x-3 \text { and } g(x)=\frac{1}{3} x+4 \\
& {[f \circ g](x)=f\left(\frac{1}{3} x+4\right)} \\
& =3\left(\frac{1}{3} x+4\right)-3 \\
& \\
& =x+12-3 \\
& \\
& =x+9 \leftarrow \text { not iceni } x \text { ivy } \\
& {[g \circ f](x)=g(3 x-3)}
\end{aligned} \begin{aligned}
& =\frac{1}{3}(3 x-3)+4 \\
& =x-1+4 \\
& =x+3 \leftarrow \text { not identity }
\end{align*}
$$

p. 395-396

10-13, 17, 21-22, 24,
$27,30-31,33,36-40$,
45-46

