Please sit in homework groups. Do BW\#12 and discuss homework. Remember to write questions on the board!!! Thank you!!


$$
\frac{3.5}{2}=7.5
$$



hw


Application WEATHER For Exercises 13-16, use the table of record high temperatures ( ${ }^{\circ}$ ) for Januar Assume that
3. $D=\{70,72,881$,
13. Identify the domain and rang the domain.
$=\{95,97,105,114 \mid$
the lanuary temperatures pairs for the data.


Source: US Nobond Domen me Aemopher Ahmonty
15. Graph the relation.
16. Is this relation a function? Explain.

indicates increased difficulty
Practice and Apply

Determine whether each relation is a function. Write yes or no.

Source. minnowacion
28. $D=(-2.5,-1$
0), $\mathrm{R}=\{-1,1\}$; no
29. $D=$ all reals, $R=$ all reals; yes
30. $\mathbf{D}=$ all reals, $R=$ all reals, yes
31. $D=$ all reals, $R=$ all reals, yes
32. $\mathrm{D}=$ all reals, $R=$ all reals; yes

| Homework Help |  |
| :---: | :---: |
| For | See |
| Exerdises | Exarples |
| $17-26$ | 1.2 |
| $29-52$ | 3 |
| 33,34 | 4 |
| $15-45.55$ | 2 |
| $15-54.56$ | 5 |

Extra Practice See page 830.
17.

20.


Chapter 2 Linear Relations and functions
18.

21.

yes
19.

| $x$ | $y$ |
| ---: | ---: |
| 0.5 | -3 |
| 2 | 0.8 |
| 0.5 | 8 |

22. 


(15) www.algeb

(23) $\{(2,1),(-3,0),(1,5)\}$

(50)

$$
\text { (3) } f(x)=3 x-5 ~ 子 \begin{aligned}
& f(-2)=3(-2)-5 \\
& f(-2)=-6-5 \\
& f(-2)=-11
\end{aligned}
$$

$$
f(a)=3 a-5
$$

(5)

$$
\text { (2) } \begin{aligned}
f(x) & =-3 x+2 \\
f(2) & =-3(2)+2 \\
f(2) & =-6+2 \\
f(2) & =-4
\end{aligned}
$$

(53)

$$
\begin{aligned}
g(4) \Rightarrow g(x) & =x^{2}-5 \\
g(4) & =4^{2}-5 \\
& =165 \\
g(4) & =11
\end{aligned}
$$

(58)

$$
\begin{aligned}
& g(x)=x^{2} \\
& g(x+1)=7 \\
& (x+1)^{2} \\
& (x+1)(x+1) \\
& x^{2}+x+x+1 \\
& x^{2}+2 x+1
\end{aligned}
$$

$$
\begin{array}{r}
58 g(x)=x^{2} \\
g(x+1)=\underbrace{(x+1)^{2}(x+1)} \\
x^{2}+x+x+1 \\
g(x+1)=x^{2}+2 x+1
\end{array}
$$

$$
m=\frac{y_{1}-y_{2}}{x_{1}-x_{2}} \text { Or } \frac{y_{2}-y_{1}}{x_{2}-x_{1}}
$$

