Solving Equations 8.3 Review

Solve:
a)
c)

$$
\begin{aligned}
\frac{-1}{5}(4.6-x) & =-2.1 \\
\frac{-1}{5} & \div \frac{1}{5} \\
+4.6-x) & =10.5 \\
-4.6 & -1 x \\
\div-1 & =5.9 \\
\therefore x & =-5.9
\end{aligned}
$$

d)

$$
\frac{x-6.95}{2}=-4.61
$$

$$
\begin{aligned}
& \frac{1}{2}(x-6.95)=-4.61 \div \frac{1}{2} \\
& \div \frac{1}{2}-6.95= \\
& x-9.22 \\
&+6.95+6.95 \\
& \underbrace{x}=-2.27
\end{aligned}
$$

e) The mean of 2 numbers is 0.4 . If one number is -5.5 , then what is the other?

$$
\frac{n+n}{2}=M \quad \frac{n+-5.5}{2}=0.4
$$

$$
\begin{aligned}
& \frac{(x+4.1)}{3}=2.5 \\
& \begin{aligned}
& \frac{1}{3}(x+4.1)=2.5 \\
& \div \frac{1}{3} \\
& x+4.1=7.5 \\
&-4.1=4.1 \\
& x=3.43
\end{aligned} \\
& \begin{aligned}
\frac{1}{3}(x+4.1) & =2.5 \div \frac{1}{3} \\
\div \frac{1}{3} & \\
x+4.1 & =7.5 \\
-4.1 & =-4.1 \\
x & =3.43
\end{aligned} \\
& \begin{aligned}
\frac{1}{3}(x+4.1) & =2.5 \div \frac{1}{3} \\
\div \frac{1}{3} & \\
x+4.1 & =7.5 \\
-4.1 & =-4.1 \\
x & =3.43
\end{aligned} \\
& \text { b) } 19.8=\frac{(4.2+x)}{-3} \\
& \begin{aligned}
& 19.8= \frac{1}{3}(4.2+x) \\
& \div-\frac{1}{3} \quad-\frac{1}{3} \\
&-59.4= 4.2+x \\
&-4.2-4.2 \\
&-63.6=x
\end{aligned}
\end{aligned}
$$

