Section 2.2: contd
Thursday, October 03, 2013
9:32 AM
comments on Assign 1:
$4 f \quad y(x+y)=x y+y^{2}$
$7 e$

$$
(1,3) \cup(3,5]
$$



8 e

$$
\begin{aligned}
& -\left(6-2^{3}\right)^{4}+(-18) \div(-0.9) \\
& -(-2)^{4}+(-18) \div\left(-\frac{9}{10}\right) \\
& -(16)+(-18) \times\left(-\frac{10}{7}\right) \\
& -16+20
\end{aligned}
$$

4

$$
\begin{array}{r}
8 \mathrm{~g}) \quad(0.3+0.4)^{2}-0.3^{2}-0.4^{2} \\
(0.7)^{2}-0.3^{2}-0.4^{2}
\end{array}
$$

$$
\begin{aligned}
& 0.49-0.09-0.16 \\
& 0.24 \\
& (0.3)^{2}=\left(\frac{3}{10}\right)^{2}=\frac{3}{10} \cdot \frac{3}{10}=\frac{9}{100}=0.09 \\
& =(0.3)(0.3)=0.09 \\
& 8 f \quad-3^{2}=-1 \cdot 3 \cdot 3 \\
& (-3)^{2} \\
& -0.3^{2}=-1(0.3)^{2}=-0.09 \\
& -3^{2}=-(3)^{2} \\
& 10 d \text { ) } \\
& \frac{4 x-8}{-2}-\frac{4 x-8}{2} \\
& -2 x+4-(2 x-4) \\
& -2 x+4-2 x-4 \\
& -4 x+8
\end{aligned}
$$

Solve for $m$ :

$$
\begin{aligned}
m a+5 & =3 a-m \\
m a+m & =3 a-5 \\
m(a+1) & =3 a-5 \\
m & =\frac{3 a-5}{a+1}
\end{aligned}
$$

solve for $y$ :
bromal
y terms to
one side

$$
\begin{aligned}
x y z\left(\frac{1}{x}+\frac{2}{y}\right) & =\left(\frac{3}{z}\right) x y z \\
y z+2 x z & =3 x y \\
2 x z & =3 x y-y z \\
2 x z & =y(3 x-z) \quad \text { factor at } \\
\frac{2 x z}{3 x \cdot z} & =y
\end{aligned}
$$

solve for $y$ and then (and only then) evaluate

$$
\text { for } z=-2
$$

$$
\begin{aligned}
12 y z\left(\frac{1}{3 y}+\frac{1}{4 z}\right) & =\left(\frac{1}{2}\right) 12 y z \\
4 z+3 y & =6 y z \\
4 z & =6 y z-3 y \\
4 z & =y(6 z-3) \\
\frac{4 z}{6 z-3} & =y \quad \text { or } y=\frac{-4 z}{3-6 z} \\
y & =\frac{4 z}{6 z-3} \quad
\end{aligned} \quad \begin{aligned}
y & =\frac{-8}{-12-3}=\frac{-8}{-15}=\frac{8}{15}
\end{aligned}
$$

