Bellwork 9/25/15

\[
\begin{align*}
\text{a} &= \text{b} & \text{c} &= \text{b} & \text{a} &= \text{c} \\
\text{a} &= \text{b}, \text{b} &= \text{c} & \Rightarrow & \text{a} &= \text{c}
\end{align*}
\]

List the property that goes with each example.

\[
\begin{align*}
m\angle 1 + m\angle 2 &= 180 \\
m\angle 2 + m\angle 3 &= 180 \\
m\angle 1 + m\angle 2 &= m\angle 2 + m\angle 3
\end{align*}
\]

Quiz today!!

Homework 2-5
P. 116 # 4, 8, 13, 18, 20
4. a) given
   b) subtraction property
c) division property
8. a) segment addition postulate
   b) substitution property
c) distribution property
d) combine like terms
e) subtraction property
f) division property
13. a) given
   b) midpoint divides segment into two congruent segments
c) substitution
d) 2x = 12
e) division property
18. \(EF + 7\)
20. \(\text{BD} \cong \text{BE}\)
   \(\text{BD} = \text{BE}\)
   \(m\angle 1 + m\angle 2 = 180\) (linear pair)
   \(\angle ABD + \angle EBC\) are vertical
   \(\angle ABD\) is adjacent to \(\angle 1\)
Family Fortune!

With a partner, write your statement to convince me that Ol' Molly was your grandmother!
Making observations

What can we observe or assume about the diagram below?