

2. a. $\triangle ABE$ and $\triangle DEB$ are rt. \triangle .
b. $\overline{BE} \cong \overline{EB}$
c. $\overline{AB} \cong \overline{DE}$
d. HL
5. yes; $\triangle BCA \cong \triangle EFD$
6. yes; $\triangle MPL \cong \triangle MNO$
7. no
8. yes; $\triangle XVR \cong \triangle TVR$
9. 13 cm; the hypotenuse is the longest side of a rt. \triangle .
11. No; $\triangle LMJ$ and $\triangle JKL$ are rt. \triangle with \cong hypotenuses ($\overline{MJ} \cong \overline{KL}$) and \cong legs ($\overline{LJ} \cong \overline{LJ}$), so $\triangle LMJ \cong \triangle JKL$ by HL.
12. $x = 3, y = 2$
13. $x = -1, y = 3$