

12-6 Practice B

Segment Relationships in Circles

Find the value of the variable and the length of each chord.

1. $x=1$
 $BE=9$ $AD=6$

2. $y=7$
 $FH=8.3$ $GI=9.4$

3. $z=14$
 $PS=11$ $TR=16$

4. $m=4.5$
 $UV=8.5$ $VX=9$

Find the value of the variable and the length of each secant segment.

5. $x=4.5$
 $DB=9.5$
 $DE=9.5$

6. $y=16.5$
 $GJ=21$ $GK=17.5$

7. $z=19$
 $SQ=18$
 $SR=28$

8. $n=1.5$
 $FC=27$ $EC=13.5$

Find the value of the variable. Give answers in simplest radical form if necessary.

9. $x=1.5$

10. $y=\sqrt{51}$

11. $z=104$

12. $b=\sqrt{70}$