Name _____ Date _____ Class _____

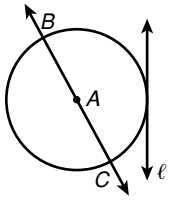
LESSON 11-1

Practice B

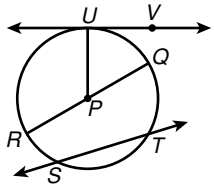
Lines That Intersect Circles

Identify each line or segment that intersects each circle.

1.

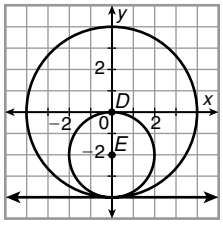


2.

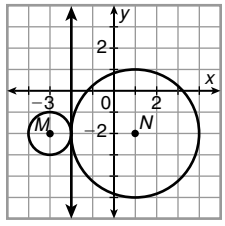


Find the length of each radius. Identify the point of tangency and write the equation of the tangent line at this point.

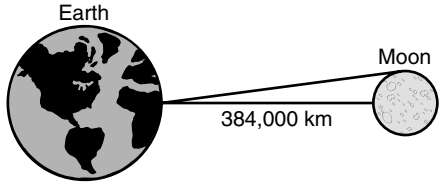
3.



4.

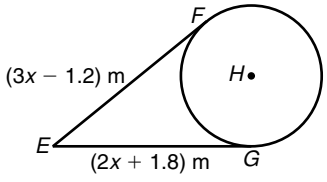


5. The Moon's orbit is not exactly circular, but the average distance from its surface to Earth's surface is 384,000 kilometers. The diameter of the Moon is 3476 kilometers. Find the distance from the surface of Earth to the visible edge of the Moon if the Moon is directly above the observer. Round to the nearest kilometer. (*Note:* The figure is not drawn to scale.)



In Exercises 6 and 7, $\overline{EF}$ and $\overline{EG}$ are tangent to ⊙*H*. Find *EF*.

6.



7.