Geometry Development 3.2

1) Give two questions for simplifying roots.

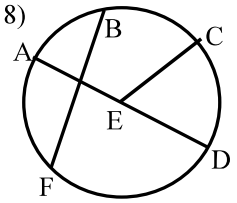
Simplify each expression.

2) $\sqrt{121}$ 3) $\sqrt{225}$ 4) $\sqrt{90}$

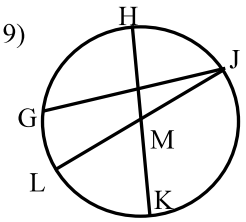
5) $\sqrt{150}$ 6) $\sqrt{252}$ 7) $\sqrt{891}$

Identify the radii, chords, and diameters.

8)

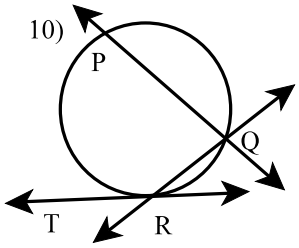



9)

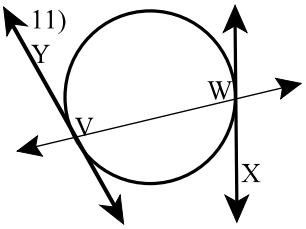



Identify the secants, and tangents.

10)




11)




Simplify.

12) $\frac{3}{5} \cdot \frac{4}{9}$ 13) $4\frac{5}{6} \div \frac{2}{3}$ 14) $\frac{1}{8} + \frac{5}{8}$ 15) $\frac{3}{5} - \frac{1}{4}$ 16) $2\frac{7}{8} + 6\frac{1}{6}$

Give the interior and exterior angle measure.

17) Heptagon 18) 23-gon

Give the number of diagonals in each polygon.

19) Nonagon 20) 15-gon

Give the length and midpoint of each segment below.

21) -15 19 22) 4 37 23) 26 71 24) -83 -49

Complete each pattern.

25) 36, 12, 6, 2, __ 26) -5, 3, -2, 1, -1, 0, __ 27) 4, 7, 10, 13, __ 28) 4, 16, 36, 64, __

List each point below and give its coordinates.

29)