Geometry Development 3.1

1) Give the order of operations in detail.   Simplify each expression.

2) $\sqrt{16}$ 3) $\sqrt{81}$ 4) $\sqrt{12}$

5) $\sqrt{27}$ 6) $\sqrt{80}$ 7) $\sqrt{180}$

Simplify.

8) $17 + 5 \cdot 3 - 19$ 9) $57 \div 3 - 4 \cdot 2$ 10) $17 - 5 \cdot 12 \div 15$

11) $9 + 63 \div 7 \cdot 4$ 12) $13 + (-48) \div 4 + (-19)$ 13) $7 \cdot 3 - 42 \div (-7)$
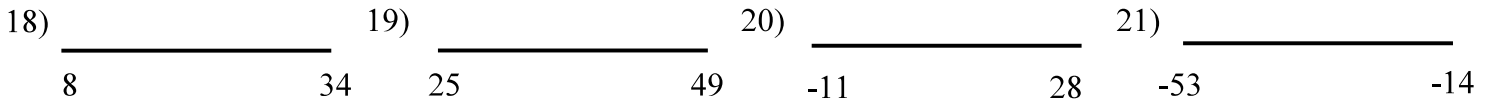
Give the interior and exterior angle measure.   Give the number of diagonals in each polygon.
14) Octagon   15) 14-gon   16) Hexagon   17) 18-gon

Give the length and midpoint of each segment below.

18) $\overline{}$ 19) $\overline{}$ 20) $\overline{}$ 21) $\overline{}$

8   34   25   49   -11   28   -53   -14

Complete each pattern.
22) 2, 5, 8, 11, __   23) -3, 4, 1, 5, 6, 11, __   24) -2, -1, 2, 7, 14, 23, __   25) 8, 4, 2, 1, __

List each point below and give its coordinates.

26)

27)