1. The Internet is an interconnected collection of computer networks that transmit data by using the Internet Protocol. State the function of router in computer networking.

2. Besides physical connection, router has to be configured before the computers can be connected to the Internet. Fill in the blanks of the following procedure.

A

O

3. Mathematical Formula and geometric object

 (a)$ sin^{2}θ+cos^{2}θ=1$

 (b) x =$ \frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$