

Part 7: How Graphics Cards Work

The answers to the following questions can be found at howstuffworks.com.

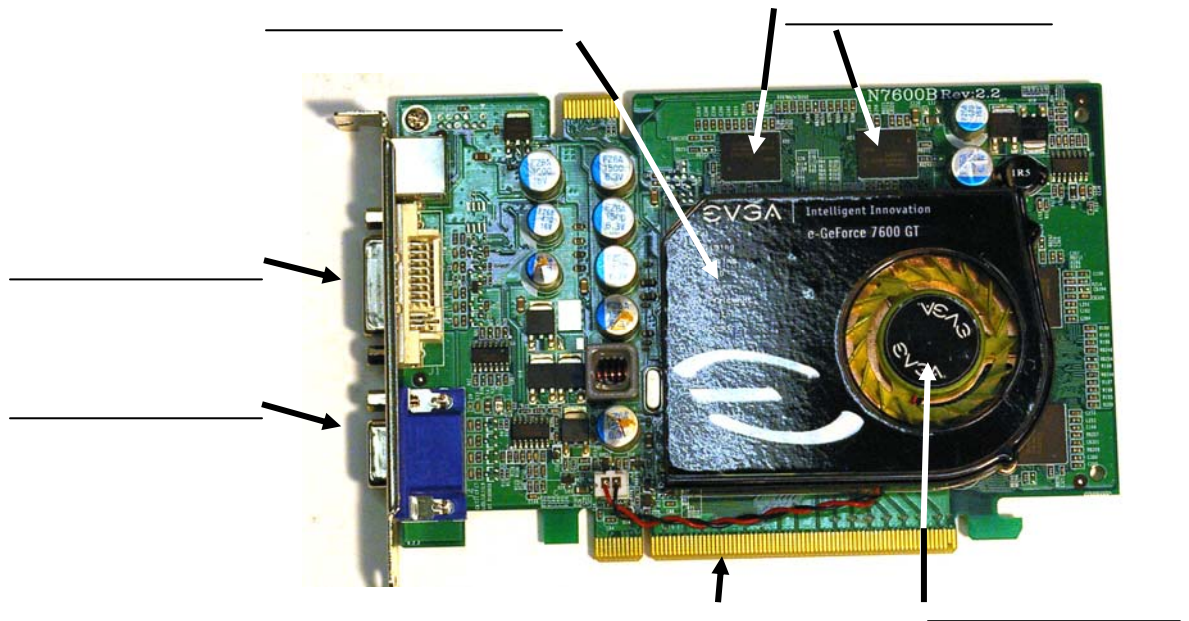
39) A Graphics Adapter Card must perform several functions in order to display graphics on the monitor. Explain the function of each of the following devices on a Video Card:

A) Graphics Processor

B) Video RAM

C) Digital to Analog Converter

40) Identify the parts of the video card indicated on the image below.

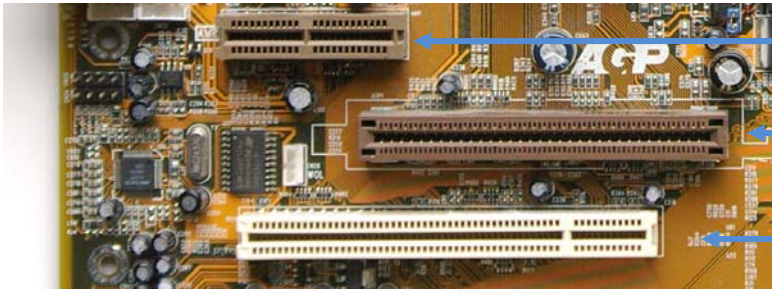


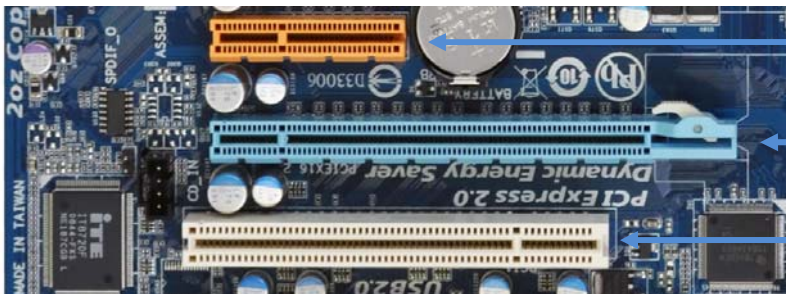
41) Over the years, video cards have been attached to the motherboard of the computer using a variety connections or “buses”. Complete the chart below for some of the most common video connections.

Acronym	Full Name	Bus Width (Number of Bits)	Clock Speed (MHz or GHz)	Data Transfer Rate (MB/sec or GB/sec)
PCI				
AGP				
PCIe				

42) Which one is the fastest?

43) Identify the PCI, AGP, and PCI Express slots in the pictures below.





44) What is the difference between 2-D and 3-D graphics?

45) Why would someone choose to pay a hundred dollars or more for a graphic card, when their computer already has video built into the motherboard?
