CSCI-342 Operating Systems Quiz 2 Chapter 8.4 Process Control

```
Name_
```

- 1. What is the name of the system call that returns the pid of the current process?
- 2. What is the name of the system call that returns the pid of the current process' parent process?
- 3. What is the name of the function that is used to terminate a process?
- 4. What system call creates a new running child process?
- 5. What prints to stdout in the following program?

```
int main() {
    int x = 1;
    pid_t pid = fork();

    if (pid == 0) {
        x++;
        printf("value of x in child: %d\n", x);
        exit(0);
    }
    x--;
    printf("value of x in parent: %d\n", x);
    return 0;
}
```

6. Draw the process graph for the following code.

```
int main() {
    fork();
    fork();
    printf("hello\n");
    exit(0);
}
```

7. What prints to stdout in the following program?

```
int main() {
    int x = 1;
    if (fork() == 0) {
        printf("p1: x = %d\n", ++x);
    }
    printf("p2: x = %d\n", --x);
    exit(0);
}
```

8. What do you call a process that has terminated but which has not been removed by the kernel.