

Name:

Date: Friday, December 2, 2016

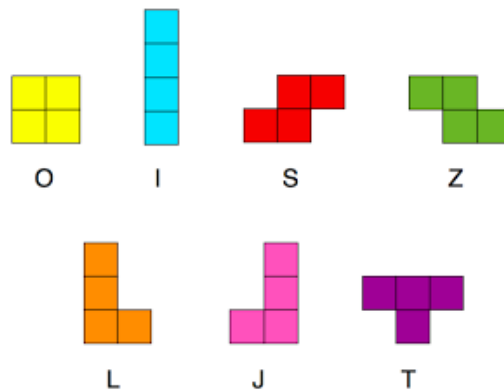
---

**MATH 181 F1 Quiz #11**

---

**Directions:** You have 15 minutes for this quiz. Please write clearly and justify your answers.

---



Show rigorously that block  $I$  can tile the plane only by translations.

Show rigorously that block  $Z$  can tile the plane only by translations.

Show rigorously that block  $L$  can tile the plane only by translations.