

## Planetary Physics (10 points)

### Part A. Mid-ocean ridge (5.0 points)

**A.1** (0.8 pt)

$$F_x =$$

This force acts on the right plate to the (check):  left  right.

**A.2** (0.6 pt)

$$\rho(T) \approx$$

$$k =$$

**A.3** (1.1 pt)

$$D =$$

**A.4** (1.6 pt)

$$F \approx$$

**A.5** (0.9 pt)

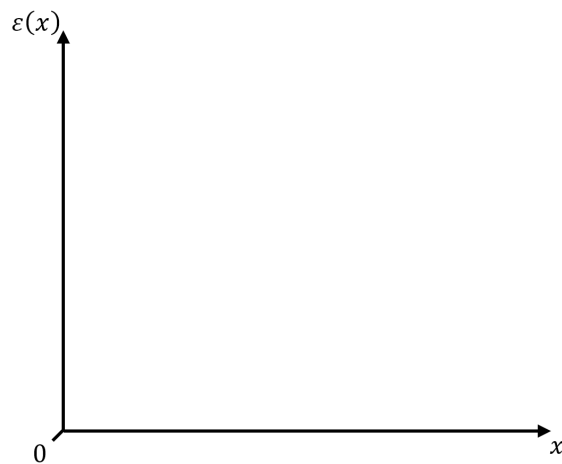
$$\tau =$$

**Part B. Seismic waves in a stratified medium (5.0 points)****B.1** (1.5 pt)

$$x_1(\theta_0) =$$

**B.2** (1.5 pt)

$$\varepsilon(x) =$$

**B.3** (2.0 pt)

$$x_{\max} =$$