**IB Physics**

**FA9.3 - Trans. and Tors. Equilibrium**

Name

Favorite Book Series

**Show your equations of equilibrium where indicated, and circle your answers and use sig figs to receive full credit.**

1. The uniform beam is 6.80 m long, and the person is standing 0.300 m from the right side, F1 is exerted at the left end, and F2 is exerted 1.80 m from the left side. Calculate the magnitude and direction of F1 and F2

**Y:**

**F1 =**

**F2 =**

**Γ:**

2. The uniform beam is 6.20 m long, and the supporting cable attaches 2.00 m from the left side, and makes a 52.0o angle with the beam. The mass hangs 0.700 m from the right side. Find the tension in the cable, and the horizontal and vertical components (magnitude and direction) of the force exerted by the wall.

**Γ:**

**Y:**

**T =**

**Wx =**

**Wy =**

**X:**