

## Final Answers

$$1) T_{AB} = 2211 \quad \text{or} \quad 3211 \text{ N} \quad \text{or} \quad ?$$

$$F_{AD} = \oplus \quad \text{or} \quad \ominus \quad 2918 \quad \text{or} \quad +, - 2146 \text{ N} \quad \text{or} \quad ?$$

$$2) F = 924.6 \quad \text{or} \quad 797.3 \text{ lb}$$

$$z = 2.24 \quad \text{or} \quad 3.14 \text{ ft}$$

$$3) T_{OB} = 341.1 \quad \text{or} \quad 720.1 \text{ N}$$

$$T_{OC} = 150.0 \quad \text{or} \quad 180.5 \text{ N}$$

$$T_{OD} = 520.3 \quad \text{or} \quad 701.1 \text{ N}$$

$$4) F = 64.28 \quad \text{or} \quad 50.31 \text{ lb}$$

$$5) \vec{M}_A = 30.4 \vec{i} + 80.8 \vec{j} - 45.5 \vec{k} \quad \text{or}$$

$$\vec{M}_A = 28.8 \vec{i} - 76.8 \vec{j} + 28.8 \vec{k} \quad (\text{N}\cdot\text{mm})$$

$$\Rightarrow M_A = \dots$$

$$d = 199.2 \quad \text{or} \quad 207.2 \text{ mm}$$