**11College Math Unit 3 Review**

**Day 1: Cosine Law**

1. Find the length of side f. b) Find the measure of angle M.

M

 10 m

11 m

12 m

N

O

**y**

D

67o

9.2 cm

8.1 cm

E

F

**f**

**Day 2: Choosing the Correct Trigonometry Tool**

Without solving, state which of the following you would use to solve for the given unknown: SOH CAH TOA, Sine law, Cosine law or Pythagorean Theorem.

 a). b).

 θ

 26 cm 44 cm

 11 cm

 18 cm θ 53°

 c). d).

 30º

 32 cm 25 cm

 45 cm 36 cm

 θ

θ

 62 cm

**Day 3: Triangle Applications**

1. A security camera pans over a parking lot. The camera is on a post at Point A, which is 20m from Point B and 32m from Point C. The distance from B to C is 50m. If the camera is pointed at B, calculate the angle it must turn to be pointed at point C.
2. Two buildings, A and B, are on opposite sides of a busy street. To find the distance between them, the measurements were made as shown in the diagram. Find the distance between the two buildings.