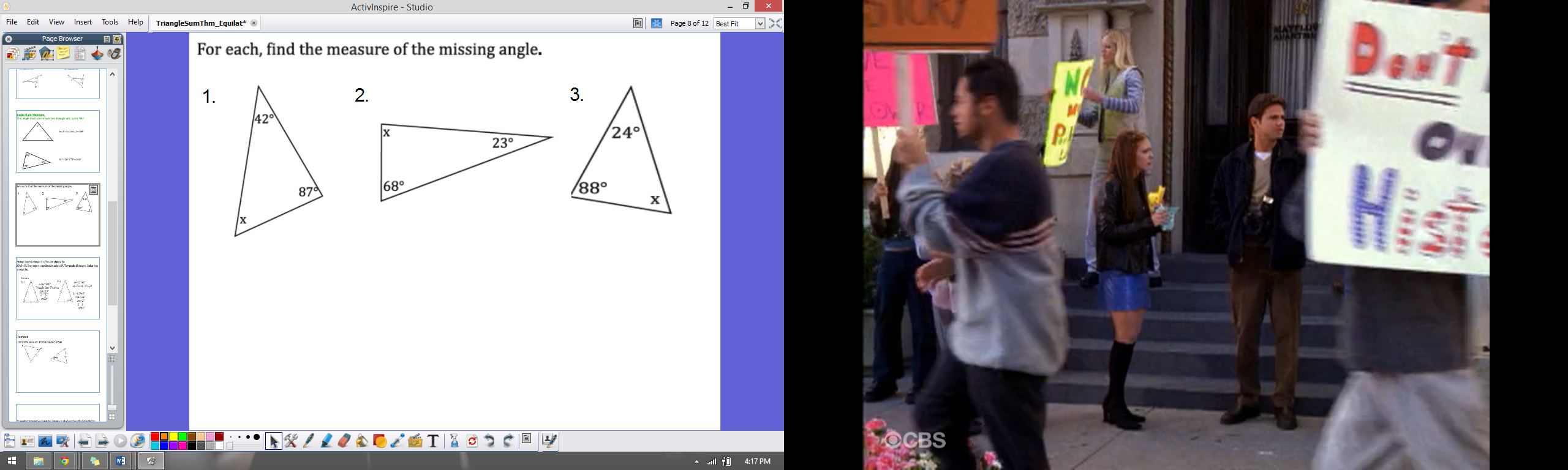
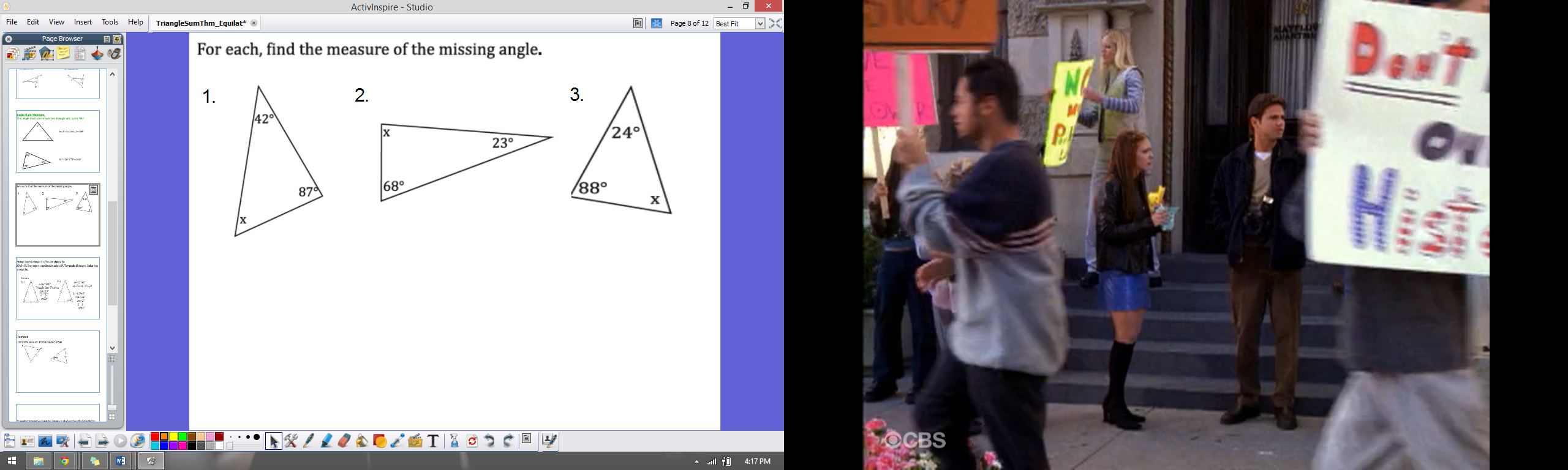
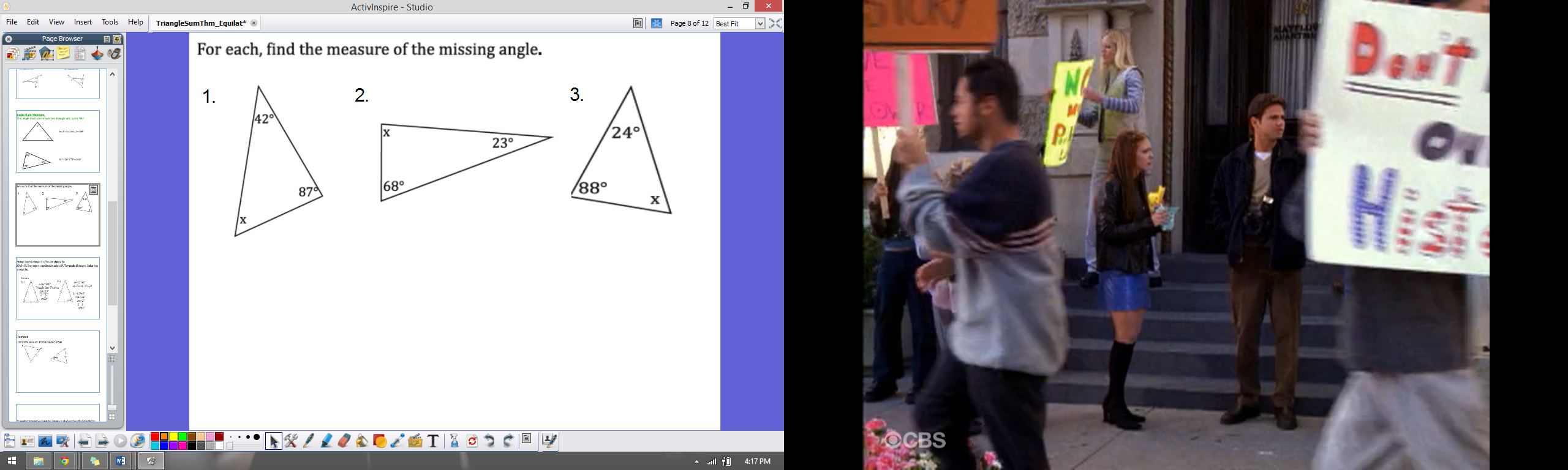
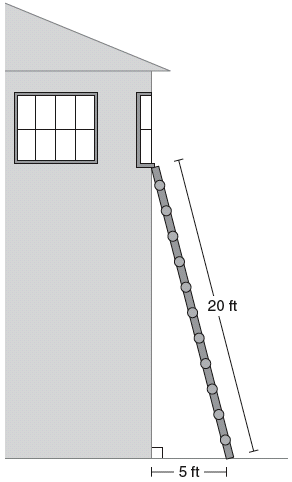
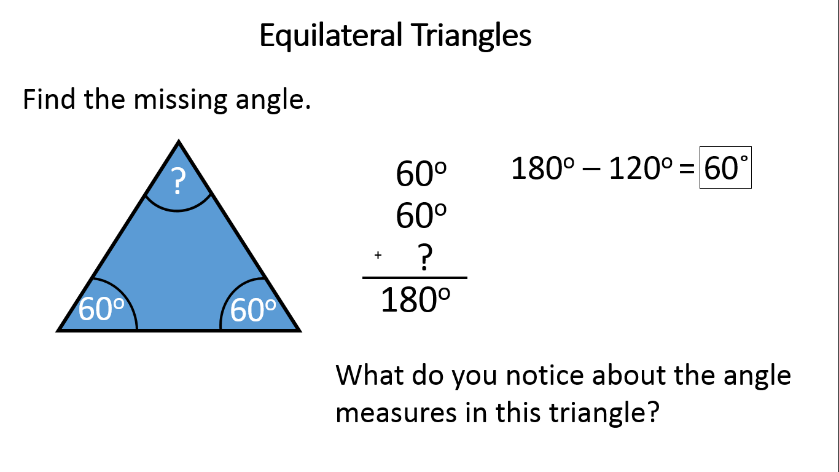
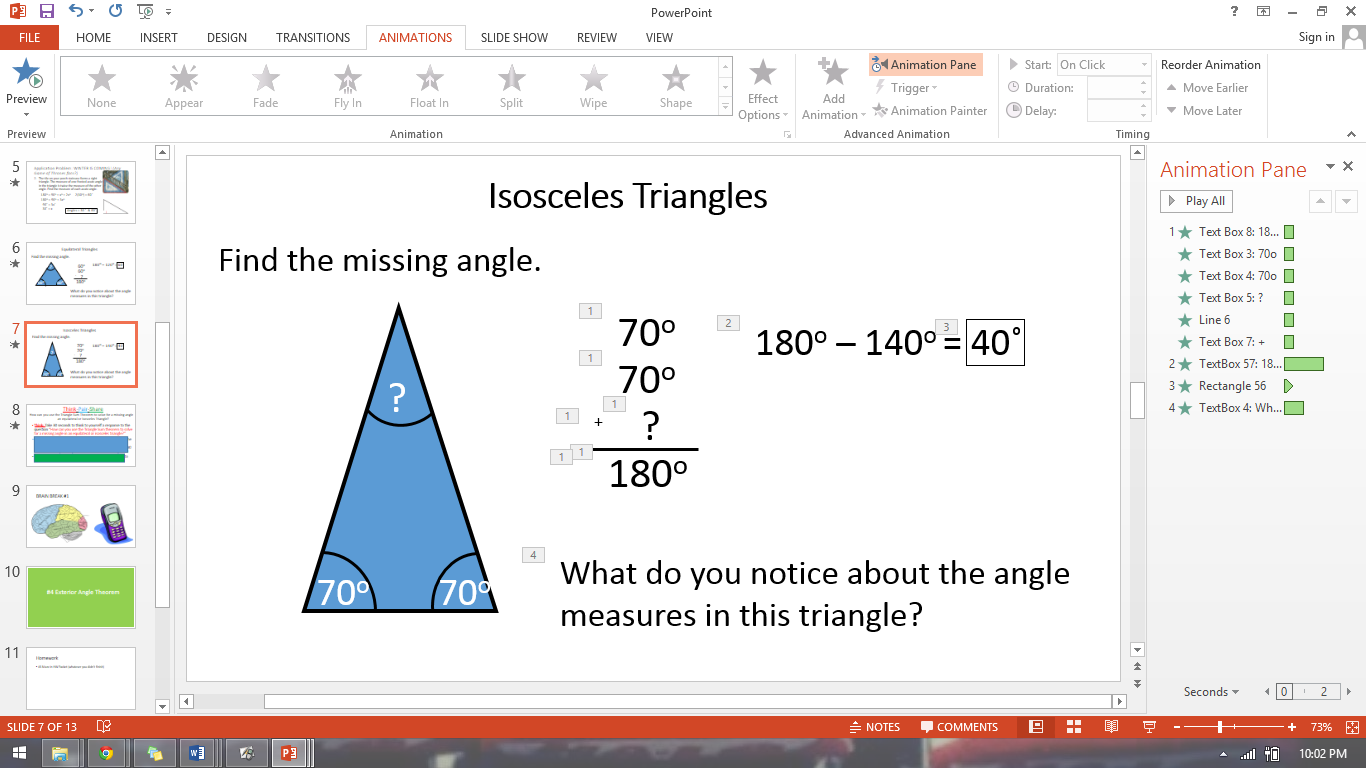
|  |  |  |
| --- | --- | --- |
| **TRIANGLE SUM THEOREM** | | |
| **Definition** | **Numbers** | **Algebra** |
| The interior angle measures of a triangle add up to \_\_\_\_\_\_ | triangle_sum_theorum  \_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_\_\_ | triangle_sum_theorum  \_\_\_\_ + \_\_\_\_ + \_\_\_\_ = \_\_\_\_\_\_ |

**Example Problems:** Find the measure of the missing angle.

**Application Problems:**1. The ladder is leaning on the 2. WINTER IS COMING! The tile on your   
ground at a 75o angle. At what   
porch staircase forms a right triangle.  
angle is the top of the ladder   
The measure of one frosted acute   
touching the building? angle in the triangle is twice the   
 measure of the other angle. Find the measure of each   
 acute angle.

**Equilateral Triangles Isosceles Triangle**Find the missing angle. Find the missing angle.