Geometry Chapter 8 Review

1.) Find the sum of the measures of the interior angles of a regular 32-gon.

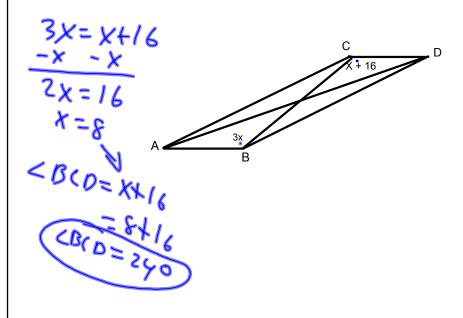
$$S = 180(n-2)$$

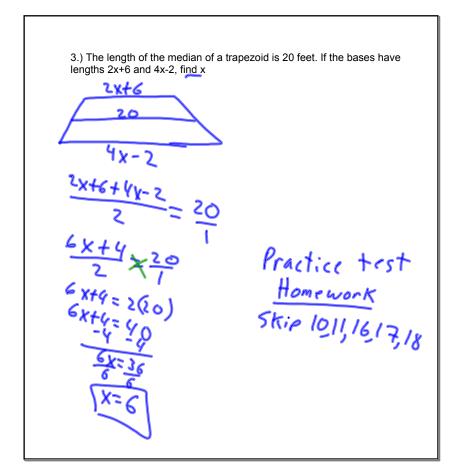
$$S = 180(32-2)$$

$$S = 180(30)$$

$$S = 5400$$

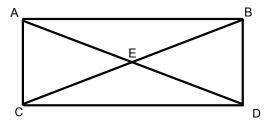
2.) Use the parallelogram ABCD to find angle BCD.





4.) Find the measure of each exterior angle of a regular 40-gon.

5.) ABCD is a rectangle. If angle CBA = 3x + 2 and angle BCD = 9x - 16, Find angle CBD.



6.) FOIL the following: (6x + 2)(2x - 9)

Factor the following: $x^2 + 6x - 27$

7.) Given the rectangle EFGH, find x, then find angles 1, 2, 3, and 4.

