Warm Up 3/4/19

1. If claiming a shape is a square, what are the characteristics that you must prove?

- 2 sets // Sides → Same slope
- 4 ∠'s → ⊥ lines → Opp. recip. slopes
- 4 ≅ sides
  - → Distance Formula or Pythagorean Theorem

2. How do you prove each of the characteristics used for #1?

3. What are the following formulas?

Midpoint $\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

Distance $d=\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$