3-18. Result should be 12 units tall and 16 units wide.

3-19. See below.

a. The 15 corresponds to the 6, while the 20 corresponds to the 8. Multiple equivalent ratios are possible. One possibility: $\frac{15}{6} = \frac{20}{8} = 2.5$

b. 25 and 10; $\frac{25}{10} = 2.5$; yes

3-20. Yes they are parallel because they have the same slope: $-\frac{3}{5}$

3-21. See below.

a. $6x^2 - 8x$

b. $2x^2 + x - 15$

c. $4x^2 - 25$

d. $2x^3 - 5x^2 - 3x$

3-22. $x = 10°$, $y = 61°$

3-23. See below.

a. No, this is not convincing. While the facts are each correct, the conclusion is not based on the facts. As stated in Fact #2, a square is a rectangle *because it has four right angles.* However, a rhombus does not have to have four right angles, so therefore there is not enough evidence that a rhombus is a rectangle.