Key

Support for College Algebra
Fall 2016
1:15 pm MW
Quiz #2

SHOW ALL WORK ON QUIZ!

1. **Use the technique:** *Completing the Square* **to solve the following equation:**
   $$5y^2 = 60 - 20y$$

$$5y^2 + 20y = 60$$

$$y^2 + 4y = 12$$

$$4 \cdot \tfrac{1}{2} = 2$$
$$2^2 = 4$$

$$y^2 + 4y + 4 = 12 + 4$$

$$(y + 2)^2 = 16$$

$$y + 2 = \pm 4$$

$$y = -2 \pm 4$$

① $y = 2$

② $y = -6$