

Problem/step

Reasons

$$4(4-w) = 3(2w+2)$$

• Use the distributive property

$$1 \oplus 16 - 4w = 6w + 6$$

$$2 \oplus -4w - 6w = 6 - 16$$

• Get all the variables on one side

$$3 \oplus -10w = -10$$

• Combine Like Terms

$$4 \oplus w = \frac{-10}{-10}$$

• Divide both sides by -10

$$5 \oplus w = 1$$

• Solve for variable

$$6 + 2(3j - 2) = 4(1 + j)$$

• Distributive property

$$1 \oplus 6 + 6j - 4 = 4 + 4j$$

$$2 \oplus 6j - 4j = 4 - 6 + 4$$

• Get all variables together

$$\oplus 2j = 2$$

• Combine Like terms

$$\oplus j = \frac{2}{2}$$

• Divide both sides by 2

$$\oplus j = 1$$

• Solve for variable