

Answer on Question #84036 – Math – Algebra

Question

$$3p+2q=5$$

$$q-p = 5$$

Solution

$$q=5+p$$

$$3p+2(5+p) = 5$$

$$3p+10+2p=5$$

$$3p+2p=5-10$$

$$5p = (-5)$$

$$p = (-5)/5$$

$$p = (-1)$$

$$q = 5+(-1)$$

$$q=4$$

Check:

$$3*(-1)+2*4=(-3)+8=5$$

$$4-(-1)=4+1=5$$

Answer: $p=(-1)$; $q=4$.