## Solving Equations Review

Write and solve an equation for each of the situations below.  Show your work!

**1.** John is 50 km from his campsite.  Each hour he travels 10 km further.  How many hours will it take until he is 110 km from his campsite?

**2.** Mary has $45 saved up.  Each week she saves an additional $15.  How many weeks will it take her to save up enough money to purchase a TV that costs $180?

**3.** Michelle has $1,000 in her bank account.  Each month, $80 is <u>deducted</u> to pay for her cellphone bill.  If she has $40 left in her account, how many months have passed?

**4.** An ant colony starts out with 250 ants.  Each week 50 new ants join the colony.  How many weeks will it take for the population to reach 1,000 ants?

**5.** $4x + 2 = 18$

**6.** $-12 = 2 + 7b$

**7.** $3 - 5k = -12$

**8.** $6 = 3(x + 4)$

**9.** $75 = 3(-6n - 5)$

**10.** $6(-x - 3) = 24$