

COLLEGE ALGEBRA QUIZ

- (1) Solve the following linear equation.

$$2x + 9 = x + 3$$

Solution:

$$x = -6$$

- (2) Solve the following linear equation.

$$4(5x + 2) - 7 = 6(x - 1)$$

Solution:

$$x = -\frac{1}{2}$$

- (3) A bear can swim 6.2 mph in still water. If it is swimming upstream, with a current of 4 mph, how long does it take him to swim 25 miles?

Solution:

It takes the bear about 4.5 hours

Distance = rate \times time

$$25 = (6.2 - 4)t$$

- (4) Find zeros of $f(x) = -2x + 13$.

Solution: $\frac{13}{2}$

- (5) Find zeros of $g(x) = 5 + x$.

Solution: -5 .