

Quiz 26

Solve.

1. A canoe rental shop charges a \$10 fixed fee plus \$8 per hour for renting a canoe. Write an equation representing the total cost, y , of renting a canoe for x hours. How much will it cost to rent a canoe for 4 hours?
2. A plumber charges \$30 for a service call plus \$42 per hour of service. Write an equation representing the total cost, y , after x hours of service. How much will it cost for a job that takes 3 hours?
3. An empty water tank is being filled at a rate of 7 gallons per minute. Write an equation representing the amount of water, y , in the tank after x minutes. How much water will be in the tank after 15 minutes?
4. Rachel joined a gym that charges a \$50 joining fee plus \$24 per month. She also rented a locker at \$6 per month. Write an equation representing Rachel's total cost, y , of joining the gym for x months. How much will she pay for 6 months?
5. A submarine 1,500 feet below the surface of the water begins ascending at an average speed of 60 feet per minute. Write an equation representing the depth, y , of the submarine after x minutes. How long will it take the submarine to reach the surface of the water?