

Solve each function for the given input value. The function  $R(t) = 5t + 3$  represents the total amount of money in dollars Billy earns watering his neighbor's plants after receiving a \$3 bonus as a function of time in hours.

$$1. R(4) = 5(4) + 3$$

$$20 + 3$$

$$23$$

Billy earns \$23  
working 4 hours.

$$2. R(3.5) = 5(3.5) + 3$$

$$17.5 + 3$$

$$20.5$$

Billy earns \$20.50  
working 3½ hours.

$$3. R(2.75) = 5(2.75) + 3$$

$$13.75 + 3$$

$$16.75$$

Billy earns \$16.75  
working 2¾ hours.

$$4. R(6) = 5(6) + 3$$

$$30 + 3$$

$$33$$

Billy earns \$33  
working 6 hours.

Substitute  $f(x)$  and solve for  $x$ .

$$5. f(x) = -40x + 1200 \text{ when } f(x) = 720$$

$$720 = -40x + 1200$$

$$\underline{-1200} \quad \underline{-1200}$$

$$-480 = -40x$$

$$\underline{-40} \quad \underline{-40}$$

$$12 = x$$

$$6. f(x) = 4x - 7 \text{ when } f(x) = 8$$

$$8 = 4x - 7$$

$$\underline{+7} \quad \underline{+7}$$

$$15 = 4x$$

$$\underline{4} \quad \underline{4}$$

$$3.75 = x$$

$$7. f(x) = -200x + 2400 \text{ when } f(x) = 450$$

$$450 = -200x + 2400$$

$$\underline{-2400} \quad \underline{-2400}$$

$$-1950 = -200x$$

$$\underline{-200} \quad \underline{-200}$$

$$9.75 = x$$

$$8. f(x) = 12x + 90 \text{ when } f(x) = 420$$

$$420 = 12x + 90$$

$$\underline{-90} \quad \underline{-90}$$

$$330 = 12x$$

$$\underline{12} \quad \underline{12}$$

$$27.5 = x$$