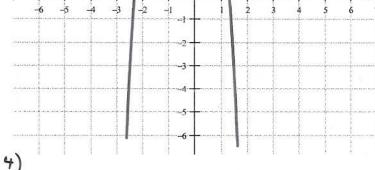
14. In the following graph of f(x)

a) Find the approximate value of f(-0.5)

b) Give all value(s) for which f(x) = 3.

c) Give the domain.

d) Give the range.



- 15. A factory makes desks. The cost, C(x), of running the factory is \$1700 per day plus \$125 for each desk manufactured.
 - a) What does *x* stand for?

Number of desks manufactured (that day)

b) What does C(x) stand for?

Total cost of running the factory on a certain day (when x desks are made) in \$

c) Set up a function that models C(x).

$$C(x) = 125x + 1700$$

d) Use the model from above to calculate how many desks were made on a day where the total cost was \$6450 (Show how to solve in proper notation. Do NOT guess the answer and just perform a check.)

$$6450 = 125x + 1700$$

$$-1700 - 1700$$

$$\frac{4750}{125} = \frac{125x}{125}$$

$$38 = x$$

$$x = 38$$