

CHAPTER 1

Functions: Characteristics and Properties

Getting Started, p. 2

1. $f(x) = x^2 + 3x - 4$

a) $f(2) = (2)^2 + 3(2) - 4$
 $= 4 + 6 - 4$
 $= 6$

b) $f(-1) = (-1)^2 + 3(-1) - 4$
 $= 1 - 3 - 4$
 $= -6$

c) $f\left(\frac{1}{4}\right) = \left(\frac{1}{4}\right)^2 + 3\left(\frac{1}{4}\right) - 4$
 $= \frac{1}{16} + \frac{3}{4} - 4$
 $= -\frac{51}{16}$

d) $f(a+1) = (a+1)^2 + 3(a+1) - 4$
 $= (a+1)(a+1) + 3a + 3 - 4$
 $= a^2 + 2a + 1 + 3a - 1$
 $= a^2 + 5a$

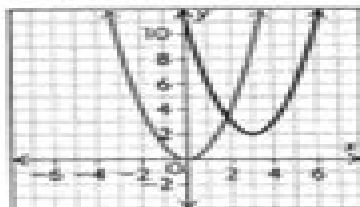
2. a) $x^2 + 2xy + y^2 = (x+y)(x+y)$

b) $5x^2 - 16x + 3 = 5x^2 - 15x - 1x + 3$
 $= 5x(x-3) + (-1)(x-3)$
 $= (5x-1)(x-3)$

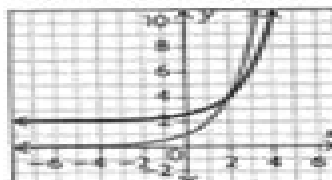
c) $(x+y)^2 - 64 = (x+y)^2 - (8)^2$
 $= (x+y+8)(x+y-8)$

d) $ax + bx - ay - by = x(a+b) + (-y)(a+b)$
 $= (a+b)(x-y)$

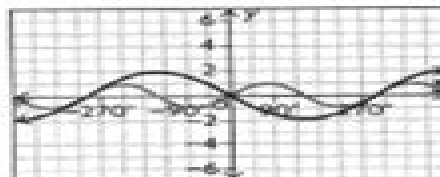
3. a) horizontal translation 3 units to the right,
vertical translation 2 units up;



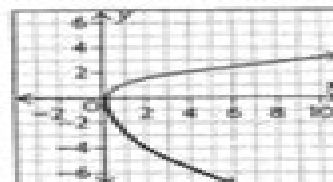
b) horizontal translation 1 unit to the right, vertical
translation 2 units up;



c) horizontal stretch by a factor of 2, vertical stretch
by a factor of 2, reflection across the x -axis;



d) horizontal compression by a factor of $\frac{1}{2}$, vertical
stretch by a factor of 2, reflection across the x -axis;



4. a) $D = \{x \in \mathbb{R} \mid -2 \leq x \leq 2\}$,

$R = \{y \in \mathbb{R} \mid 0 \leq y \leq 2\}$

b) $D = \{x \in \mathbb{R}\}$, $R = \{y \in \mathbb{R} \mid y \geq -19\}$

c) $D = \{x \in \mathbb{R} \mid x \neq 0\}$, $R = \{y \in \mathbb{R} \mid y \neq 0\}$

d) $D = \{x \in \mathbb{R}\}$, $R = \{y \in \mathbb{R} \mid -3 \leq y \leq 3\}$

e) $D = \{x \in \mathbb{R}\}$, $R = \{y \in \mathbb{R} \mid y > 0\}$

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web overload relay is a protective device that is used to protect the motor from overcurrent phase loss current imbalance overload relay can be used with the combination of contactors overload protection is necessary to increase the life of the motor next must read articles the most used 3 basic motor starter with its plc program

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web overload protection is installed in the main control circuit or power line of motor to protect from damage due to mechanical malfunction overload conditions when it is running the effect of an overload is an excessive rise in temperature in the motor windings due to current higher than full load

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web the wiring diagram of an overload relay is shown below and the connections of an overload relay symbol may seem like two opposite question marks otherwise like the s symbol the overload relay working function is discussed below

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web overload protection the current flows in the circuit based on the demand of loads if the amount of current increases and

exceeds the rating of the electrical equipment then the system is overloaded the wires or cables may not withstand the higher current the wires get hot and even melt the insulation this leads to fire hazards

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web a fuse is used for protection of any electrical device from overcurrent it has a small wire or metal which melts due to large current opens the circuit blocking the flow of faulty currents the iec ieee ansi provide different representation systems

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web an overload relay olr protects an electric motor against overloads and phase failures thermal and electronic olr definition operation and connections

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web apr 15 2022 overload protection circuit for voltage regulator ic in the circuit ic3 7812 as the 12 volts regulator will supply voltage to load through the contact c nc of the relay ry1 in normal the point a will has state is 1 cause the output of ic1 1 is 0 so no current to trigger gate of scr1 thus the ry1 not works

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web electrical iec 60617 bs 3939 symbols representing isolators disconnectors fuses contactors and overloads for usage in drawing electrical circuits

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web overload describes a moderate and gradual rise in the value of current over a relatively long period of time it is caused by excessive amounts of current drawn by a motor which may be as high as six times the rated current this is caused by too much load on a motor systems are protected by

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