

CHAPTER 11 **Chapter Test**
Form C, continued

8. Write the equation of the line that passes through the points $(-10, 6)$ and $(15, 1)$ in slope-intercept form.

$$y = -\frac{1}{5}x + 4$$

9. Identify a point the line for $y + 7 = -\frac{3}{5}(x - 4)$ passes through and identify the slope of the line.

Possible answer: $(4, -7)$; $-\frac{3}{5}$

10. Write the point-slope form of the equation for a line with a slope of $-\frac{1}{74}$ that passes through the point $(-21, \frac{1}{2})$.

$$y - \frac{1}{2} = -\frac{1}{74}(x + 21)$$

Find each equation of direct variation, given that y varies directly with x .

11. y is -63 when x is 81

$$y = -\frac{7}{9}x$$

12. y is $\frac{3}{5}$ when x is $\frac{1}{2}$

$$y = \frac{6}{5}x$$

Graph each inequality.

13. $\frac{1}{4}y > -\frac{1}{6}x + \frac{1}{2}$



14. $-3x + 4y \leq 12$



Use a line of best fit to answer the question.

15. The value of a car decreases as it is driven more miles. The data are shown below. Find a line of best fit for the data. Use the equation to predict the value of the car at 24,000 miles.

Miles	Value of Car
10,000	\$14,500
12,000	\$14,150
14,000	\$13,815
16,000	\$13,650
18,000	\$13,500

Possible answer: $y = -0.125x + 15,673$
15,673; about \$12,673

16. In order to rent an apartment, Vik makes an initial payment of \$1535, and each month he must pay \$750. The equation $y = 750x + 1535$ represents the amount of money Vik has paid after x months. After 2 years, how much rent money has Vik paid?

\$19,535

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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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web jun 2 2002 hobby circuit designed by david johnson p e february 2010 12v pwm motor light controller the diagrams are for 12v operation only and there are high side common ground and low side common 12v versions the low side version of the circuit uses an n channel fet the high side version of the circuit uses a p channel fet

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web motor contactor or starter coils are typically designated by the letter m in ladder logic diagrams

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web an mcc comprises three buses for a three phase system and the cabinet consists of a circuit breaker a motor starter and a control transformer however the actual contents vary widely as per requirements the circuit breaker has a handle that goes through the door to switch it off without opening it for safety purposes

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web sep 10 2023 wiring diagrams show the connections to the controller wiring diagrams sometimes called main or construction diagrams show the actual connection points for the wires to the components and terminals of the controller basic wiring for motor control technical data