

Quiz 3.1-3.4

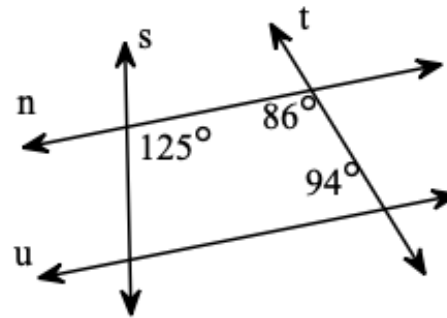
HW 3.6 & 3.7

Answers to the difficult/tricky ones

Quiz #5, 6

In the given figure, which lines, if any, are parallel? Justify your answer.

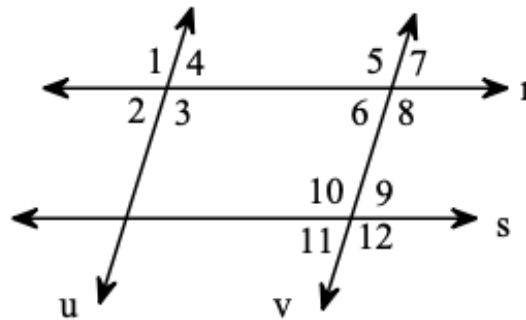
Question Viewer



Use the given information to

which lines, if any, are parallel. Justify each conclusion with a theorem.

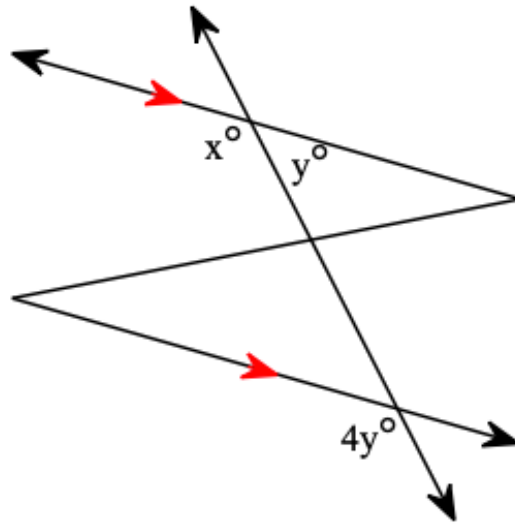
$$\angle 1 \cong \angle 8$$



Quiz # 16

Find the values of the variables.

Question Viewer



3.6 #15

Determine whether the following lines are parallel, perpendicular, or neither.

$$y = -9x + 4$$

$$y = 9x + 6$$

3.6 #16

Determine whether the pair of lines is parallel, perpendicular, or neither.

$$-4x + 2y = 5$$

$$2x - y = 6$$

3.6 # 19

The yearly cost of tuition and required fees for attending a public four-year college full time can be estimated by the linear function $y = 291.2x + 2944.01$ where x is the number of years after 2000 and y is the total cost.

- (a) Find and interpret the slope of this equation.
- (b) Find and interpret the y-intercept point of this equation.

3.6 #20

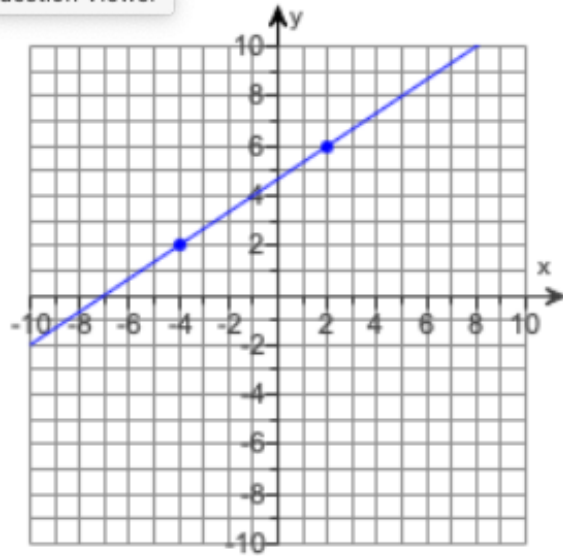
Find the slope of a line perpendicular to the following line.

$$f(x) = -\frac{9}{8}x - 5$$

3.7 #9

Find an equation of the line graphed. Write the equation in standard form.

Question Viewer



3.7 #17

A fruit company recently released a new applesauce. By the end of its first year, profits on this product amounted to \$27,800. The anticipated profit for the end of the fourth year is \$56,900. The ratio of change in time to change in profit is constant. Let x be years and y be profit.

- Write a linear equation y that expresses profit in terms of x .
- Use this equation to predict the company's profit at the end of the seventh year.
- Predict when the profit should reach \$192,700.



- A linear equation y that expresses profit in terms of x is $y = \square$.

Let's use your SLOPE program and some Graphing /Table features of your TI-84

3.7 #20

Find an equation of the perpendicular bisector of the line segment whose endpoints are given.

$(7,0)$ and $(-17,-8)$



The equation is .

(Simplify your answer. Type your answer in standard form.)