$$Y = 1.44X \implies 1.44.8$$

$$\frac{36}{35} = \frac{1}{9}$$

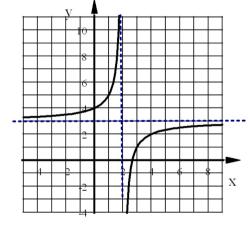
Write the equation of this graph which is a transformation of

of
$$y = \frac{2}{x}$$

Since the branches are in "Quad II and IV" there is an x-axis reflection

2 night

$$y = \frac{1}{x-2} + 3$$

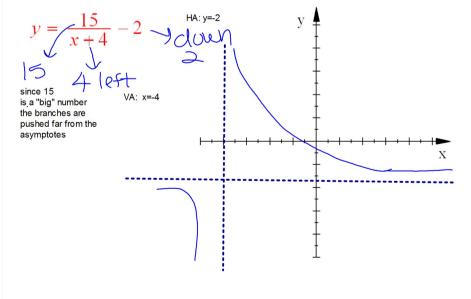


constant product

1152= X.80

These points are part of an <u>Inverse Variation</u> relationship. Find the value of the missing coordinate.

State the equations of the asymptotes then sketch the graph showing asymptotes as dashed lines.



Q varies inversely with the cube of T and jointly with R and the square of M. Q=481.25 when M=10, R=14, and T=2.

1. Find the variation constant. $Q = K R M^2$

$$481.25 = K(14)(100)$$

Find the value of T when Q=12, M=9, and R=25

The amount of caramel produced varies directly with the number of hours the candy store is open. 210 lbs of caramel is made when the store is open 12 hours.

1. Find the variation constant, including units.

2. How many hours will be needed to produce 250 lbs of caramel?

$$\frac{210}{12} = \frac{250}{x}$$
 $210x = 3,000$
 $x = 14.3 \text{ his}$