

1) Given it is 10:30am and the hour hand of a clock is 3 cm and the minute hand is 5 cm.

a. Draw the clock

b. Find the EXACT components of

$$\vec{h} =$$

$$\vec{m} =$$

2) Given the following vectors write **(T)True or (F) False** for the equations

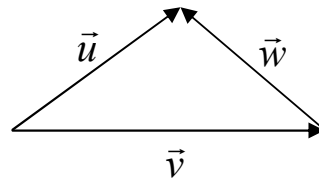
a. _____ $\vec{w} + \vec{v} = \vec{u}$

b. _____ $\vec{u} + \vec{w} = \vec{v}$

c. _____ $\vec{v} + \vec{u} = \vec{w}$

d. _____ $\vec{v} - \vec{u} = \vec{w}$

e. _____ $\vec{u} - \vec{v} = \vec{w}$

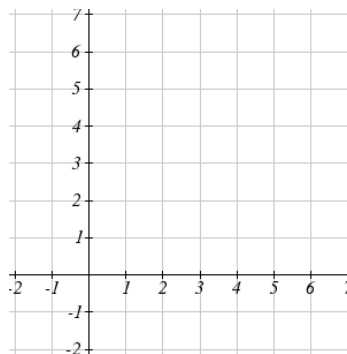


3) Consider the parametric equation

$$x(t) = 2t + 1$$

$$y(t) = 5 - 2t$$

a. Solve the first equation for t



b. Substitute it into the second equation.

c. Write the equation for y as a function of x

d. Sketch a graph of the parametric equation



4) Given it is 7:30am and the hour hand of a clock is 3 cm and the minute hand is 5 cm.

c. Draw the clock

d. Find the EXACT components of

$$\vec{h} =$$

$$\vec{m} =$$

5) Given the following vectors write **(T)True or (F) False** for the equations

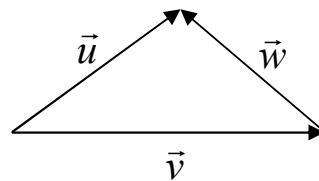
a. _____ $\vec{w} + \vec{v} = \vec{u}$

b. _____ $\vec{v} + \vec{u} = \vec{w}$

c. _____ $\vec{u} + \vec{w} = \vec{v}$

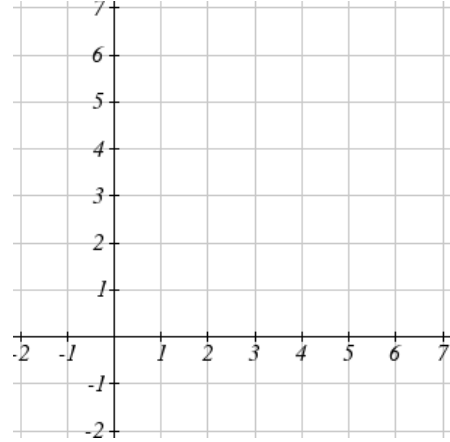
d. _____ $\vec{u} - \vec{v} = \vec{w}$

e. _____ $\vec{v} - \vec{u} = \vec{w}$



- 6) Consider the parametric equation $x(t) = 3t - 1$
 $y(t) = 4 - 3t$
- e. Solve the first equation for t

- f. Substitute it into the second equation.



- g. Write the equation for y as a function of x

- h. Sketch a graph of the parametric equation

